MASSEY UNIVERSITY
GRADUATE RESEARCH SCHOOL

STATEMENT OF CONTRIBUTION TO DOCTORAL THESIS CONTAINING PUBLICATIONS

(To appear at the end of each thesis chapter/section/appendix submitted as an article/paper or collected as an appendix at the end of the thesis)

We, the candidate and the candidate's Principal Supervisor, certify that all co-authors have consented to their work being included in the thesis and they have accepted the candidate's contribution as indicated below in the *Statement of Originality*.

Name of Candidate: Natalie Parlane

Name/Title of Principal Supervisor: Professor Bernd Rehm

Name of Published Research Output and full reference:

Vaccines displaying mycobacterial proteins on biopolyester beads stimulate cellular immunity and induce protection against tuberculosis. Natalie A. Parlane, Katrin Grage, Jun Mifune, Randall J. Basaraba, D. Neil Wedlock, Bernd H. A. Rehm, Bryce M. Buddle
Accepted for publication: Clinical and Vaccine Immunology, 2011. doi:10.1128/cvi.05505-11

In which Chapter is the Published Work: 3

Please indicate either:

- The percentage of the Published Work that was contributed by the candidate: 70%

  and / or

- Describe the contribution that the candidate has made to the Published Work:

  All immunological experiments were devised and carried out by Natalie Parlane. Construction of Ag85A-ESAT-6 plasmids and cloning into L. lactis was done by Katrin Grage and Jun Mifune. Randall Basaraba analysed all histopathology.

Natalie Parlane — Digitally signed by Natalie Parlane DN: cn=Natalie Parlane, o=AgResearch, ou=Immunology - Infectious Diseases, email=natalie.parlane@agresearch.co.nz, c=NZ Date: 2011.12.02 09:42:34 +13'00'

Candidate's Signature

2/12/2011

Date

Bernd Rehm — Digitally signed by Bernd Rehm DN: cn=Bernd Rehm, o=Massey University, ou=IMBS, email=b.rehm@massey.ac.nz, c=NZ Date: 2011.12.02 11:54:21 +13'00'

Principal Supervisor's signature

2/12/2011

Date