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:

Production of a particulate Hepatitis C vaccine candidate by engineered Lactococcus lactis. Natalie A. Parlane, Katrin Grage, Jason W. Lee, Bryce M. Buddle, Michel Denis and Bernd H. A. Rehm
Accepted for publication: Applied and Environmental Microbiology, 2011. doi:10.1128/AEM.06420-11

In which Chapter is the Published Work: 4

Please indicate either:

- The percentage of the Published Work that was contributed by the candidate: 75%

  and / or

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

  All immunological experiments were devised and completed by Natalie Parlane. Construction of plasmids pET-HCc-phaC and pNZ-HCcCAB and cloning was done by Katrin Grage and Jason Lee.

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 09:54:03 +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 11:39:36 +13'00'

Principal Supervisor's signature

2/12/2011

Date