

**Hsp70 Induction and *hsp70* Gene Polymorphisms as Indicators of  
Acclimatization under Hyperthermic Conditions**

by

Tina Kresfelder

B. Sc. (Rand Afrikaans University, Johannesburg, South Africa) 1999

B. Sc. Hons. (Rand Afrikaans University, Johannesburg, South Africa) 2000

**Dissertation**

Submitted in fulfillment of the requirements for the degree



at the

**RAND AFRIKAANS UNIVERSITY**

Auckland Park

South Africa

**Supervisor: Dr. Marianne Cronjé**

**Co-Supervisor: Dr. Nico Claassen**

## Acknowledgements

With much gratitude, I would like to thank:

My supervisor, Dr. Marianne Cronjé, without whom this project would never have been possible; for her constant encouragement and support throughout this study and for always having a spare moment for last-minute thoughts and ideas.

My co-supervisor, Dr. Nico Claassen for his input and assistance throughout the course of this study.

Mr. Schu Schutte at CSIR Miningtek for establishing the acclimatization program which was followed, and for allowing me the use of the climatic chamber in which the program was carried out.



Prof. Liza Bornman for her help and encouragement, and for being prepared to go that extra mile to offer her help in a time of need.

Riette Eiselen, (Statistical Consultation Services (STATKON) for her expert statistical advice.

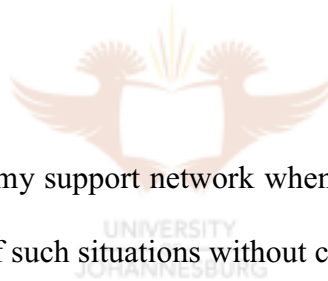
Dad, Mom and Kim, for their love and never-ending support, constant encouragement and for allowing me to be the eternal student.

My family, for always offering encouragement, love and support through the good times and the bad.

Raymond for his support throughout the course of this study, and for always being there whenever I needed help or just a friendly ear.

Milena for her constant encouragement and motivation, and for always being there with a smile whenever I needed to vent out my frustrations.

Nicole, for being there when I was at my worst, always ready with a kind word and a shoulder to cry on.



Jacinda and Safi, for being my support network whenever things got out of hand, and for always helping me out of such situations without complaint.

All of my friends at the lab, for always being supportive and offering me all the assistance I ever needed without any complaints.

Last, but certainly not least, to God who literally carried me through most of the past few months; who I turned to in tears when things were at their worst and who in turn always helped me to find the answers.

*To Grandpa (1926 – 2003)*

*For inspiring and nurturing a young, enquiring mind.*

*Muhenda Bwino Madala.*

