

**MOTHER-TO-CHILD TRANSMISSION OF THE
IMMUNODEFICIENCY VIRUS TYPE 1: ROLE
OF NEUTRALIZING ANTIBODIES AND
MOLECULAR CHARACTERISTICS OF
THE TRANSMITTED VARIANTS**

TANAWAN SAMLEERAT

**DOCTOR OF PHILOSOPHY
IN BIOMEDICAL SCIENCE**

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**THE GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
SEPTEMBER 2008**

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**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
IN BIOMEDICAL SCIENCE**

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THESIS UNDER THE CO-DIRECTED THESIS CONVENTION
BETWEEN CHIANGMAI UNIVERSITY AND
FRANÇOIS RABELAIS UNIVERSITY OF TOURS

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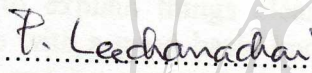
THIS THESIS HAS BEEN APPROVED
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENT
FOR THE DEGREE OF DOCTOR OF PHILOSOPHY
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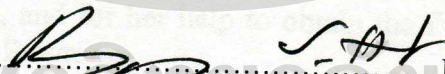
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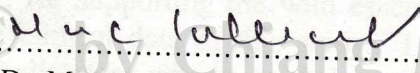
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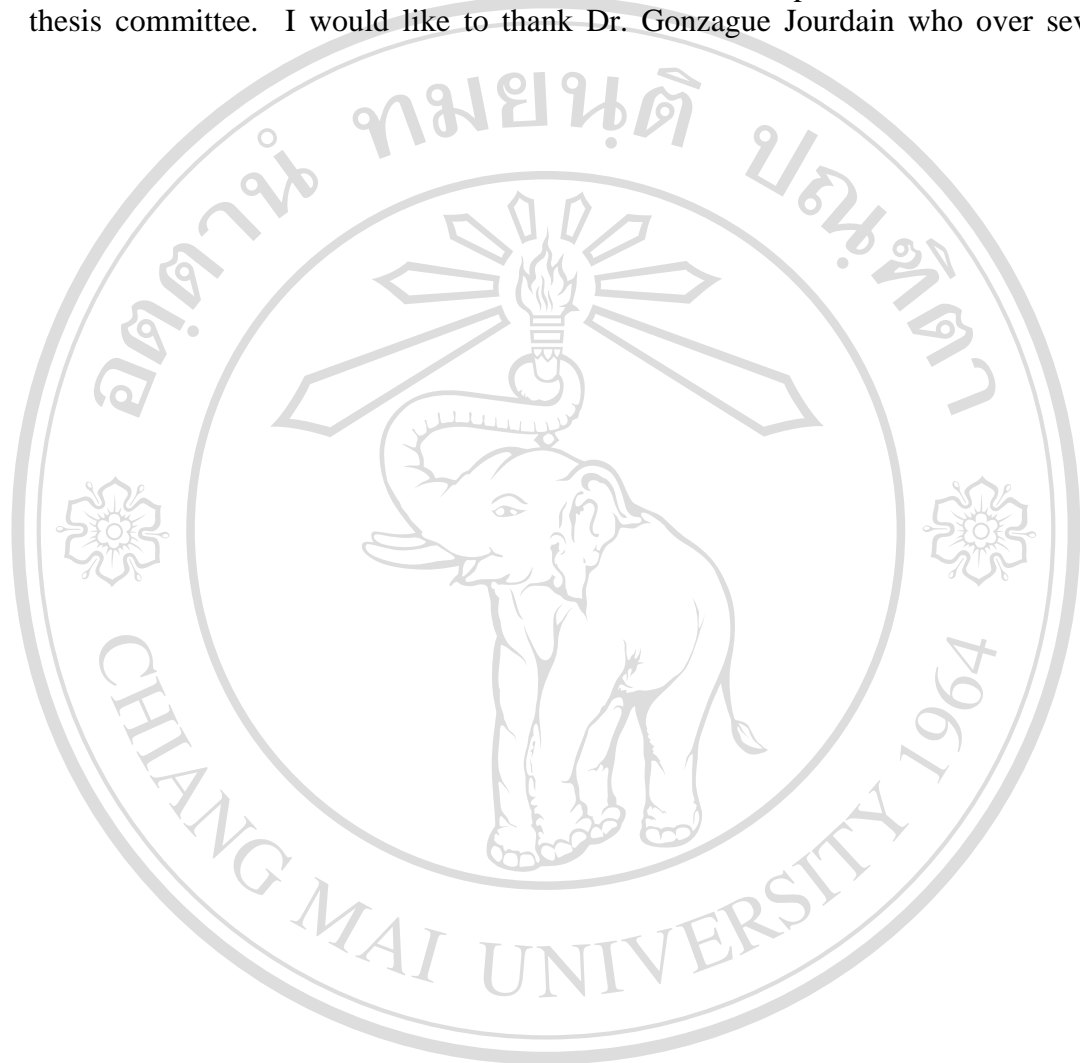
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