

**INVESTIGATING PATHOLOGICAL CHANGES IN THE LIVER IN
FATAL HUMAN DENGUE HEMORRHAGIC FEVER**

CANDIDATE'S NAME

A THESIS PROPOSAL SUBMITTED IN PARTIAL FULFILLMENT

OF THE REQUIREMENTS FOR

THE DEGREE OF **DOCTOR OF PHILOSOPHY**

(TROPICAL MEDICINE**)**

FACULTY OF TROPICAL MEDICINE

MAHIDOL UNIVERSITY

20XX

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Evaluation of the thesis proposal
We, the members of the Thesis Proposal Defense Committee
for
CANDIDATE'S NAME
Unanimously approve the proposal entitled

**INVESTIGATING PATHOLOGICAL CHANGES IN THE LIVER IN
FATAL HUMAN DENGUE HEMORRHAGIC FEVER**

on
Month DD, 20XX

.....
Asst. Prof.,
Ph.D. (Trop.Med.)
Chair

.....
Prof.,
M.D., Dip. Thai Board (Anatomical
Pathology)
Member

.....
Dr.,
Ph.D. (Biology)
Member

.....
Mr.,
D.V.M., Ph.D. (Trop.Med.)
Member

.....
Ms.,
M.D., FRCP (UK)
Member

.....
Program Director
Doctor of Philosophy
Faculty of Tropical Medicine
Mahidol University

INVESTIGATING PATHOLOGICAL CHANGES IN THE LIVER IN FATAL
HUMAN DENGUE HEMORRHAGIC FEVER

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CANDIDATE'S NAME STUDENT ID TMTM/D

#

Ph.D. (TROPICAL MEDICINE)

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SUMMARY OF THESIS PROPOSAL

(Using concise sentences, this part details the objectives, background, materials and methods, time frame and the expected usefulness of the proposed study)

KEY WORDS:

-- pages

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3.3 Burden of

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3.3.1 Culture condition of SK-N-SH cells

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3.3.2 Cell viability assay

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3.3.2.1 Determination of morphological cell changes: using phase contrast inverted microscope

3.3.2.2 MTT assay

3.3.2.3 Determination of reactive oxygen species production

Reactive oxygen species (ROS).....
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