

**OPTIMIZATION OF DENGUE E PROTEIN EXPRESSION FROM  
MAMMALIAN CELLS FOR VIRUS-LIKE PARTICLE  
DEVELOPMENT**

**SATHIPORN SUKSATHAN**

**A THESIS SUBMITTED IN PARTIAL FULFILLMENT  
OF THE REQUIREMENTS FOR  
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Thesis  
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.....  
Miss Sathiporn Suksathan  
Candidate

.....  
Prof. Duncan R. Smith, Ph.D.  
(Biomolecular Science)  
Major advisor

.....  
Mr. Sittiruk Roytrakul, Ph.D.  
(Phytochemistry)  
Co-advisor

.....  
Lect. Chutima Thepparit, Ph.D.  
(Molecular Genetics and Genetic  
Engineering)  
Co-advisor

.....  
Lect. Promsin Masrinoul, Ph.D.  
(Medical Science)  
Co-advisor

.....  
Prof. Patcharee Lertrit,  
M.D., Ph.D.(Biochemistry)  
Dean  
Faculty of Graduate Studies  
Mahidol University

.....  
Assoc. Prof. Apinunt Udomkit, Ph.D.  
(Molecular Biology)  
Program Director  
Master of Science Program in  
Molecular Genetics and Genetic  
Engineering  
Institute of Molecular Biosciences  
Mahidol University

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for the degree of Master of Science (Molecular Genetics and Genetic Engineering)

on  
May 28, 2015

.....  
Miss Sathiporn Suksathan  
Candidate

.....  
Assoc. Prof. Apinunt Udomkit, Ph.D.  
(Molecular Biology)  
Chair

.....  
Prof. Duncan R. Smith, Ph.D.  
(Biomolecular Science)  
Member

.....  
Mr. Sittiruk Roytrakul, Ph.D.  
(Phytochemistry)  
Member

.....  
Mr. Anan Jongkeawwattana, Ph.D.  
(Microbiology)  
Member

.....  
Prof. Patcharee Lertrit,  
M.D., Ph.D.(Biochemistry)  
Dean  
Faculty of Graduate Studies  
Mahidol University

.....  
Prof. Prasert Auewarakul, M.D.,Dr.,med.  
Director  
Institute of Molecular Biosciences  
Mahidol University

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