

**CLONAL DISTRIBUTION OF NEUROANTIGEN-SPECIFIC T-CELL
POPULATIONS IN MULTIPLE SCLEROSIS AND PHENOTYPE OF
PRIMARY T CELLS WITH REDUCED EXPRESSION OF CD147**



BRIAN BIEGLER

**DOCTOR OF PHILOSOPHY
IN BIOMEDICAL SCIENCE**

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THE GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

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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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THIS THESIS HAS BEEN APPROVED


TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS

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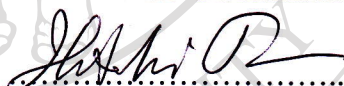
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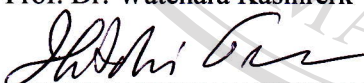
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Brian Biegler

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