

**DETERMINATION OF PBSCs POTENCY IN  
TERMS OF CELL KINETICS, GROWTH  
AND DIFFERENTIATION IN CULTURE  
SYSTEM: EFFECTS OF AGE  
AND SEX OF DONORS**

**NUTTHAPONG MOONKUM**

**MASTER OF SCIENCE  
IN MEDICAL RADIATION SCIENCES**

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**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
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**NUTTHAPONG MOONKUM**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE**

**IN MEDICAL RADIATION SCIENCES**

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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
THE REQUIREMENTS FOR THE DEGREE OF  
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