

**BIOCHEMICAL MECHANISM OF MODULATION OF ABC TRANSPORTERS:
P-GLYCOPROTEIN (P-GP, ABCB1), MULTIDRUG RESISTANCE RELATED
PROTEIN 1 (MRP1, ABCC1) AND MITOXANTRONE RESISTANCE
PROTEIN (MXR, ABCG2) BY CURCUMINOIDS**

WANIDA CHEARWAE

**DOCTOR OF PHILOSOPHY
IN BIOCHEMISTRY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
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**THIS THESIS HAS BEEN APPROVED
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