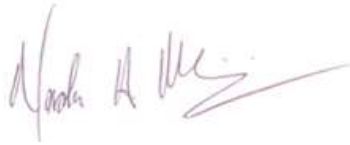


DIVERSE ROLES OF THE FREE-FATTY ACID RECEPTORS FFA1 AND  
FFA4 IN PAPILLARY RENAL CELL CARCINOMA CELLS

BY

PRIYANKA FLORINA KARMOKAR

Approved:

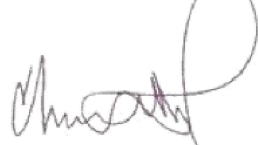


March 17, 2023

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Dr. Nader H. Moniri, Ph.D. Advisor

Date



March 22, 2023

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Dr. Clinton E. Canal, Ph.D. Dissertation Committee Member

Date



March 23, 2023

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Dr. Raquibul Hasan, Ph.D. Dissertation Committee Member

Date



March 23, 2023

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Dr. Renee Hayslett, Ph.D. Dissertation Committee Member

Date



March 23, 2023

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Dr. Kathryn M. Momary, Pharm.D, Dissertation Committee Member

Date



March 29, 2023

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Dr. Brian Crabtree, Dean, College of Pharmacy

Date