

**INVITRO STUDIES ON THE EFFECT OF ROSMARINIC ACID  
RICH FRACTION FROM *ocimum sanctum* ON THE REST  
EXPRESSION IN NEURONAL EXICITOTOXICITY**

*Dissertation submitted to University of Kerala In partial fulfilment of the  
requirements for the award of the degree of*

**MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

SUBMITTED BY

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DEPARTMENT OF BIOTECHNOLOGY

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KOLLAM

AUGUST 2022



## CENTER FOR RESEARCH ON MOLECULAR AND APPLIED SCIENCES

CRMAS/Cert./2022/08/710

26<sup>th</sup> AUGUST, 2022

### CERTIFICATE

This is to certify that the work entitled “*In vitro* STUDIES ON THE PROTECTIVE EFFECTS OF ROSMARINIC ACID RICH FRACTION FROM *Ocimum sanctum* ON INVITRO NEURONAL EXICITOTOXICITY” is a bonafide project work done by NAYANA GEORGE, student of SREE NARAYANA COLLEGE, KOLLAM (Affiliated to UNIVERSITY OF KERALA), in partial fulfilment of Masters Degree in BIOTECHNOLOGY.

Under the guidance and supervision



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