

CERTIFICATE

This is certify that the thesis, entitled “**SYNTHETIC AND PHARMACOLOGICAL STUDIES ON NITROGEN HETEROCYCLES**” submitted to the Bharathiar University, in Partial fulfillment of the requirements for the award of the Degree of **Doctor of Philosophy in Chemistry** is a record of original research work done by **Ms. Namitha. R** during the period 2013-2018 of her research in the Department of Chemistry at PSGR Krishnammal College for Women under my supervision and guidance and the thesis has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or other similar title of any candidate of any University.

Countersigned

Signature of the Guide

Head of the Department

Principal

DECLARATION

I, **Namitha. R** hereby declare that the thesis, entitled “**SYNTHETIC AND PHARMACOLOGICAL STUDIES ON NITROGEN HETEROCYCLES**” submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of **Doctor of Philosophy in Chemistry** is a record of original and independent research work done by me during 2013-2018 under the Supervision and Guidance of **Dr. G. SELVI** Department of Chemistry PSGR Krishnammal College for Women and it has not formed the basis for the award of any Degree /Diploma/ Associateship/Fellowship or other similar title to any candidate in any University.

Signature of the Candidate

CERTIFICATE OF GENUINNESS OF THE PUBLICATION

This is to certify that the Ph.D. candidate Ms Namitha R working under my supervision has published the following research articles in the refereed journals. The contents of the publication incorporate part of the results presented in her thesis.

1. **R. Namitha** G. Selvi, & G. Sathya Priyadarshini, Synthesis characterization and pharmacological studies on novel pyridazino quinolines, *Chemical Science Review and Letters*, 3(10), 117-122, 2014.

2. **R. Namitha** & G. Selvi, A theoretical study on NLO properties and reactivity of pyridazino quinolines. *Chemical Science Review and Letters*, 5(19), 279-285, 2016.

R. Namitha, G. Selvi, D. Mageswari Theoretical and experimental investigations on the biological studies on novel triazino quinolines, *International Journal of Computational Intelligence Research (IJCIR)*. 13(5), 1021-1025, 2017.

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4	Name of the Supervisor	Dr. G. SELVI
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CERTIFICATE

The Institutional Animal Ethics Committee of Amala Cancer Research Centre (No.149/PO/Rc/S/1999/CPCSEA) unanimously approved the animal experiments of the Ph.D. Thesis work of Namitha R., Research Fellow, PSGR Krishnammal College for Women, Coimbatore, entitled "Synthetic and pharmacological studies on nitrogen hetrocycles"(Approval No.ACRC/IAEC/17-01[1]) carried out under the guidance of Dr. Ramadasan Kuttan.


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