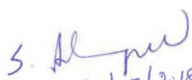


Certificate

This is to certify that the thesis entitled “**Antioxidative and Antitumorigenic Potential of PEG Functionalized Silver Nanoparticles from Ethanolic Extract of *Volkameria inermis* Leaves to EAC Cells by *in vitro* and *in vivo* Studies**” submitted to Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, for the award of the degree of Doctor of Philosophy in Biochemistry, is a record of original work done by **K. Lavanya**, during the period of her study in the Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, under my supervision and guidance, and the thesis has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any university.


Signature of the

Head of the Department


Signature of the Guide


Signature of the Dean

Declaration

I hereby declare that the matter embodied in the thesis entitled “**Antioxidative and Antitumorigenic Potential of PEG Functionalized Silver Nanoparticles from Ethanolic Extract of *Volkameria inermis* Leaves to EAC Cells by *in vitro* and *in vivo* Studies**” is the result of investigations carried out by me in the Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore under the supervision and guidance of **Dr. S. Annapurani**, Former Professor and Head, Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore and that it has not been submitted for the award of any Degree / Diploma / Associateship / Fellowship of any other University or Institute.

S. Annapurani
28/05/2018

Signature of the Supervisor

K. Lavanya

Signature of the Candidate



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
भारतीय वनस्पति सर्वेक्षण
BOTANICAL SURVEY OF INDIA



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सं. भा.व.स./द.क्षे.के./No.: BSI/SRC/5/23/2015/Tech. / 2082

दिनांक/Date: 29th September 2015

सेवा में / To

Ms. K. Lavanya
Ph. D. Research Scholar
Department of Biochemistry
Avinashilingam Institute for Home Science &
Higher Education for Women
Coimbatore - 641 043

महोदया/Madam,

The plant specimen sent by you for identification is identified as *Volkameria inermis* L. (Synonym: *Clerodendrum inerme* (L.) Gaertn.) – VERBENACEAE. The identified specimen is returned herewith for preservation in their college/ Department/ Institution Herbarium.

धन्यवाद/Thanking you,

भवदीय/Yours faithfully,


29/9/15

(डॉ. जी.वी.एस. मूर्ति /Dr. G.V.S. Murthy)
वैज्ञानिक 'एफ' एवं कार्यालय अध्यक्ष /
Scientist 'F' & Head of Office

डा.जी.वी.एस.मूर्ति / Dr.G.V.S.MURTHY
वैज्ञानिक 'एफ' एवं कार्यालय अध्यक्ष
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Botanical Survey of India
दक्षिणी क्षेत्रीय केन्द्र
Southern Regional Centre
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INSTITUTIONAL ANIMAL ETHICS COMMITTEE



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Institute for Home Science and Higher Education for Women

University

(Estd. u/s 3 of UGC Act 1956)

Coimbatore - 641 043, Tamil Nadu, India

(Reg No. 623/PO/ReBi/S/02/CPCSEA 19.06.2002)

21.08.2015

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Vice Chancellor
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Dr. B. Shyamala Vijayavathi
Dr. S. Subramanian
Dr. A. Michael
Mrs. N.V. Sreejaya

To

Ms.K.Lavanya, Ph.D Scholar
Dr.S.Annapurani
Professor and Head
Department of Biochemistry, Biotechnology
and Bioinformatics

Dear Ms.K.Lavanya and Dr. S.Annapurani,

Ref: Proposal No: AUW: IAEC.2015.BC:03

With reference to the above proposal presented in the IAEC meeting held on 14th August 2015 held at our University, and the changes submitted by you in the protocol as per the suggestions made by the IAEC, the Institutional Animal Ethics Committee of our University hereby grants approval to your proposal No. AUW:IAEC.2015.BC:03, entitled, "Antitumorigenic efficacy of protein fraction of *Percularia daemia* leaf and Silver nanoparticles of protein fraction of *Percularia daemia* leaf to ELA tumor cells"

Enclosed – changes approved by the committee to be followed while implementing the animal experiment protocol.

The approval number for the same is AUW: IAEC.2015.BC:03

Wishing you success in your research endeavors

Regards

S. Kowsalya

Dr.S.Kowsalya

for Member Secretary, IAEC

Encl: as above

