

## **DECLARATION BY THE CANDIDATE**

I, **Naresh Khanduri**, declare that the thesis entitled “**Isolation, Identification and Drug resistance testing of Gram-negative bacilli at a Tertiary-care hospital with special emphasis on Phenotypic and Genotypic Characterization of Carbapenem resistance**” is my own work conducted under the supervision of **Dr. R. K. Agarwal & Dr. B. Chatterjee** at Himalayan Institute of Medical Sciences, Department of Microbiology approved by Research Degree Committee.

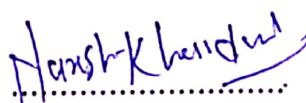
I further declare that to the best of my knowledge the thesis does not contain any part of any work which has been submitted for the award of any degree either in this University or in any other University/ Deemed University without proper citation.

### **Besides this:**

I have successfully completed the Course work of one semester as per UGC- Regulation 2016 norms.

I have also given a pre-Ph. D. presentation and successfully incorporated the changes suggested on the basis of feedback and comments received.

I have also published two research paper in a journal from the research work of the thesis and has produced an evidence of the same in the form of acceptance letter/or the reprint.



**Naresh Khanduri**

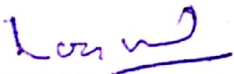
**(Ph. D. Student)**

## CERTIFICATE

This is to certify that **Mr. Naresh Khanduri** in the department/division of **Microbiology** of this Institute has fulfilled the requirements prescribed for the Ph. D. degree of the Swami Rama Himalayan University, Dehradun.

The thesis entitled “**Isolation, Identification and Drug resistance testing of Gram-negative bacilli at a Tertiary-care hospital with special emphasis on Phenotypic and Genotypic Characterization of Carbapenem resistance**” was carried out under my direct supervision. No part of the thesis was submitted for the award of any degree or diploma prior to this date.

\*Clearance was obtained from the Institutional Ethics Committee/  
Institutional Animal Ethics for carrying out the study.

  
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**Dr. R. K. Agarwal**

**(Supervisor)**

Professor and Head  
Department of Microbiology  
Himalayan Institute of Medical Sciences  
Swami Rama Himalayan University  
Dehradun, Uttarakhand

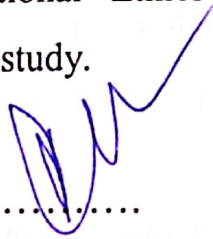
\* *As and when applicable.*

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**Dr. B. Chatterjee**

**(Co-Supervisor)**

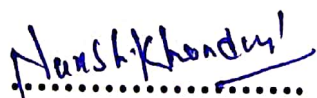
Associate Professor  
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Dehradun, Uttarakhand

\* *As and when applicable.*

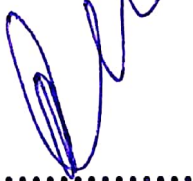
## CERTIFICATE FOR PLAGIARISM

It is certified that PhD Thesis entitled “Isolation, Identification and Drug resistance testing of Gram-negative bacilli at a Tertiary Care hospital with special emphasis on Phenotypic and Genotypic characterization of carbapenem resistance” has been examined by us. We undertake & declare that:

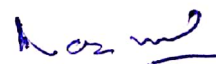
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- b. The work presented is original and own work of the author (i.e. there is no plagiarism). No ideas, processes, results or words of others have been presented as Author’s own work.
- c. There is no fabrication of data or results which have been compiled/analyzed.
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- e. The thesis has been checked using TURNITIN / PlagScan (copy of originality report attached).

  
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**Naresh Khanduri**  
**Ph. D. Student**

  
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**Dr. B. Chatterjee**  
**Co-supervisor**

  
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**Dr. R. K. Agarwal**  
**Supervisor**

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