

University of Kashmir  
DEPARTMENT OF BIOTECHNOLOGY  
HAZRATBAL, SRINAGAR  
190006

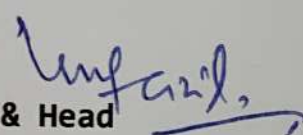


TO WHOM IT MAY CONCERN

This is to certify that **Rafia Khazer**, M.Sc. Clinical biochemistry, University of Kashmir, Srinagar, has successfully completed her project work on the topic titled "*Cloning and expression of Metadherin (MTDH) in HEK-T cells*" that constitutes the practical training course and dissertation work carried out in this Department for a period of 6 months w.e.f. January 2019 to June 2019.

  
Supervisor

Dr. Khalid Majid Fazili  
Professor  
Department of Biotechnology  
University of Kashmir

  
Professor & Head  
Department of Biotechnology  
University of Kashmir

# MOLECULAR REPRODUCTION, DEVELOPMENT AND GENETICS

INDIAN INSTITUTE OF SCIENCE



## CERTIFICATE OF THE EXTERNAL GUIDE

This is to certify that the dissertation entitled **Knockout Of Polycomb Group Protein Embryonic Ectodermal Development In Extra Endodermal Cells** submitted by **Rayees Ahmad Nanwaie (Enrolment No: 17057119026)** to department of clinical Biochemistry , University of Kashmir, Srinagar in partial fulfilment of the requirement for the award of the degree of Master's in Clinical Biochemistry is a record of work carried by him under my supervision (**Dr Srimonta Gayen**), Associate Professor, MRDG Unit, IISc, Bangalore. The contents of this dissertation, in full or in parts, have not been submitted to any other Institute or University for the award of any Degree or Diploma.

*Srimonta Gayen*

**Dr Srimonta Gayen**

Assistant Professor

Molecular Reproduction, Development and Genetics

Indian Institute of Science, Bengaluru-560012

# DEPARTMENT OF BIOTECHNOLOGY

Hazratbal, Srinagar

190006



## TO WHOM IT MAY CONCERN

This is to certify that **Sadaf Jan** student of M.Sc. Clinical Biochemistry (4th semester), University of Kashmir, has successfully completed her project work entitled “**Understanding the role of Vgl1 in genome stability**” in this department under the guidance of Dr. Altaf Bhat, Assistant Professor, department of biotechnology for a period of six months w.e.f Jan-Jun 2019.

**Dr. Altaf Bhat**

**Assistant professor  
Department of Biotechnology**

**Dr. Khalid Majid Fazili**

**Head of Department  
Department of Biotechnology  
University of Kashmir**



## CERTIFICATE OF EXTERNAL GUIDE

This is to certify that the dissertation entitled **“IDENTIFICATION OF NOVEL NON-HISTONE METHYLATIONS BY EUKARYOTIC HISTONE METHYLTRANSFERASES”** is submitted by Mr. **SHAIKH ANAITULLAH**, En. No: 1705719028 to the Clinical biochemistry department, School of Biological science, Kashmir University, Srinagar in partial fulfilment of the requirements for the Degree of M.Sc. Clinical Biochemistry is a record of work carried out by him under my supervision of **Dr. SHRAVANTI RAMPALLI** at **Institute for Stem Cell Science and Regenerative Medicine (InStem), Bangalore**. The contents of this dissertation, in full or in parts, have not been submitted to any other Institute or University for the award of any Degree or Diploma.

*R. Shravanti*  
14/06/2019.

**Signature of the External Guide**

**Dr. Shravanti Rampalli,**

**Assistant Investigator,**

**Institute for Stem Cell Science and Regenerative Medicine (InStem),**

**Bangalore.**



DEPARTMENT OF CHEMISTRY AND BIOLOGY, INDIAN INSTITUTE OF  
SCIENCE EDUCATION AND RESEARCH PUNE - 411008, INDIA.

CERTIFICATE

This is to certify that the dissertation entitled “RNA Recognition Mode of TRBP2 VS TRBP1” comprises of research work carried out by Miss Shaira Ismail under my supervision at the Department of chemistry and biology, Indian Institute of Science Education And Research during the period January 2019 to June 2019 towards the partial fulfillment of Masters of Science in Clinical Biochemistry (University of Kashmir). This work is original and has not been done earlier by anyone else. The results presented in this report, in whole or part has not been submitted elsewhere for any other academic degree.

*Jeetender*

Dr Jeetender Chugh

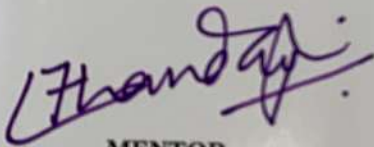
Assistant professor

Department of Chemistry & Biology,

Indian Institute of Science Education & Research PUNE (411008).

## CERTIFICATE OF THE GUIDE

This is to certify that **Furqana Fayaz**, student of M.Sc. clinical biochemistry, University of Kashmir, has successfully completed her project work entitled "**TO STUDY THE EFFECT OF CYTOCHALASIN D ON ALPHA 1 SYNTROPHIN EXPRESSION IN BREAST CANCER CELLS.**" in this department for a period of 6 months.



MENTOR

Firdous A. Khanday  
Dept. of Biotechnology  
University of Kashmir



HEAD

Professor Khurshid Andrabi  
Dept. of Biochemistry  
University of Kashmir



राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान  
NATIONAL INSTITUTE OF IMMUNOLOGY

This is to certify that Ms Qurat ul Quadir, M. Sc. student of Department of Clinical Biochemistry, University of Kashmir, Srinagar has carried out the work on the project entitled "Expression and purification of epsilon toxin domain of *Clostridium perfringens*" under my supervision and guidance at the National Institute of Immunology, New Delhi from January, 2019 to June, 2019.

Dr. Lalit C. Garg, FNA  
Senior Scientist,  
Gene Regulation Laboratory,  
National Institute of Immunology,  
New Delhi 110067

**Molecular Biophysics Unit, Indian Institute of Science,  
Bangalore- 560012, India**



**CERTIFICATE**

**This is to certify that the dissertation entitled “Efficient mapping of protein-protein contacts *in vitro* through cysteine labelling” submitted by Mubashir Rasool Bhat, to the University of Kashmir, for the degree masters of science is based on the results of experiments and investigations carried out by her under my supervision and guidance at Indian Institute of Science, Bangalore. This is also to clarify that the above said work has not been previously submitted for an award of any degree, diploma or fellowship in any Indian or foreign university.**

*Rdjr*

Professor of Molecular Biophysics  
Indian Institute of Science  
Bangalore - 560 012

**Prof. Raghavan Varadarajan**

**Signature of the Principal Investigator**

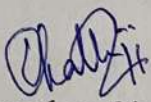


Molecular Biophysics Unit,  
Indian Institute of Science, Bangalore- 560012, India



**CERTIFICATE**

This is to certify that the dissertation entitled **Spectroscopic analysis of RNA polymerase using F17W  $\omega$  mutant** submitted by Nisa Manzoor Shah, to the University of Kashmir, for the degree masters of science is based on the results of experiments and investigations carried out by her under my supervision and guidance at Indian Institute of Science, Bangalore. This is also to clarify that the above said work has not been previously submitted for an award of any degree, diploma or fellowship in any Indian or foreign university.



Prof. Dipankar Chatterji  
Signature of the Principal Investigator  
PROJECT INVESTIGATOR  
Molecular Biophysics Unit  
Indian Institute of Science  
Bangalore - 560 012.



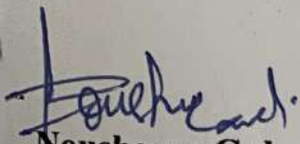
School of Life Sciences

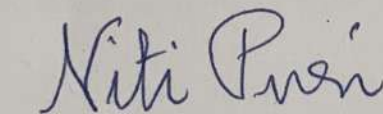
**JAWAHARLAL NEHRU UNIVERSITY**

**NEW DELHI 110067, INDIA**

**CERTIFICATE OF THE GUIDE**

Certified that the project work, which is being carried out by **Nousheena Gul (M.Sc. Clinical Biochemistry)**, entitled “ **To Confirm the Cloning Of Wild Type Rat SNAP-23 in EGFP2 plasmid by restriction digestion analysis**” in partial fulfilment for the degree of **Masters of Clinical Biochemistry** Submitted to Department of clinical Biochemistry University of Kashmir was carried out under my guidance at School of life sciences , Jawaharlal Nehru University, New Delhi.

  
**Nousheena Gul**  
(Candidate)

  
**Dr Niti Puri**  
(Supervisor)

Assistant professor

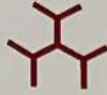
Department of School of life sciences

Jawaharlal Nehru University,

New Delhi

20-06-2019

Dated:



## राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान

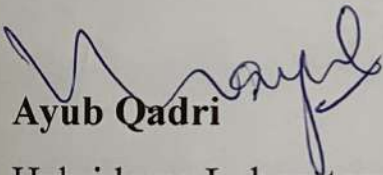
जैव प्रौद्योगिकी विभाग, विज्ञान और प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान

## NATIONAL INSTITUTE OF IMMUNOLOGY

An Autonomous Research Institute of the Department of Biotechnology, Ministry of Science and Technology  
Government of India

### CERTIFICATE

This dissertation entitled "**Analysis of anti-Salmonella antibody response in humans**" submitted by **Rabiya Nabi** in partial fulfilment of the degree of **M.Sc. in Clinical Biochemistry, University of Kashmir**, comprises work done by her in the Hybridoma Laboratory at the National Institute of Immunology, New Delhi.



**Ayub Qadri**

Hybridoma Laboratory

डॉ. अयूब कादरी / Dr. Ayub Qadri  
स्टाफ वैज्ञानिक / Staff Scientist  
राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान  
NATIONAL INSTITUTE OF IMMUNOLOGY  
अरुणा आसफ अली मार्ग / Aruna Asaf Ali Marg  
नई दिल्ली-110 067 / New Delhi - 110 067

**DEPARTMENT OF ADVANCED CENTRE FOR HUMAN  
GENETICS, SHER-I-KASHMIR INSTITUTE OF MEDICAL  
SCIENCES, SOURA, SRINAGAR**



**Certificate**

This is to certify that the work in this dissertation entitled **“Role of MTHFR Gene 1793 G/A Single Nucleotide Polymorphism in pathogenesis of Graves’ disease patients in Kashmir valley”** is a bonafide work of **Mr. Mohsin Manzoor** and has been carried out under my guidance and supervision at the Department of Advanced Centre for Human Genetics, Sher-I-Kashmir Institute of Medical Sciences, Soura, Srinagar.

**Dr. Dil Afroze**  
**Professor & Head**  
**Department of Advanced**  
**Centre for Human Genetics**  
**SKIMS H.O.D**

**Advanced Centre for Human Genetics**  
**Sher-I-Kashmir Institute of Medical Sciences**  
**Soura, Srinagar**

अखिल भारतीय आयुर्विज्ञान संस्थान  
अंसारी नगर, नई दिल्ली-110608  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi-110608



शरीरमाद्यं खलु धर्मसाधनम्

दूरभाष / Tel. No. : (+91-11) 26594832

(UG) : 26594365

(PG) : 26593230

फैक्स / Fax : 26589766, 26588663

ईमेल / Email : reg@aiims.ac.in

aiims.reg@gmail.com

No.F.10-20/2019.Acad.II

Dated: 27.05.2019

# Certificate

This is to certify that

**Mr. Shouib Mohammad**

has completed

Short Term Training

In

the department of

**Biochemistry**

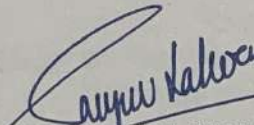
From

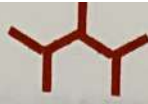
15<sup>th</sup> January, 2019 to 27<sup>th</sup> May, 2019

at this Institute

N.B.:

This Certificate will not be used  
on Letter Heads, Visiting Cards,  
Name Plates etc. by the trainees.

  
(DR. SANJEEV LALWANI)  
REGISTRAR



राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान  
NATIONAL INSTITUTE OF IMMUNOLOGY

CERTIFICATE

This is to certify that **Ms. Tabiya Qayoom Wani** a bonafide student of University of Kashmir has successfully carried out her project work titled "**A freeze-thaw method for solubilization of recombinant human growth hormone expressed as bacterial inclusion bodies**" under the supervision of **Dr. Amulya K Panda** during her stay at National Institute of Immunology (NII), New Delhi from 9<sup>th</sup> Feb, 2019 to 18<sup>th</sup> June, 2019.

Dr. Amulya K. Panda डॉ. अमूल्य कु. पैडा / Dr. Amulya K. Panda  
निदेशक / Director

Director and Staff Scientist  
राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान  
National Institute of Immunology  
अरुणा आसफ अली मार्ग / Aruna Asaf Ali Marg  
नई दिल्ली-110 067 / New Delhi - 110 067

New Delhi-110067

**DEPARTMENT OF ADVANCED CENTRE FOR HUMAN  
GENETICS,  
SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES,  
SOURA, SRINAGAR, KASHMIR**



**Certificate**

This is to certify that the work in this dissertation entitled “**Role of MTHFR 677 C/T (rs1801133) single nucleotide polymorphism in etiopathogenesis of Graves’ disease in Kashmir valley**” is a bonafide work of **Ms. Tanzeela Bhat** and has been carried out under my guidance and supervision at the Department of Advanced Centre for Human Genetics, Sher-I-Kashmir Institute of Medical Sciences, Soura, Srinagar.

**Dr. Dil Afroze**  
**Professor & Head**  
**Department of Advanced**  
**Centre for Human Genetics**  
SKIMS  
**Dr. Dil Afroze**

**HOD**

Advanced Centre for Human Genetics  
Sher-I-Kashmir Institute of Medical Sciences  
Soura, Srinagar

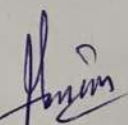



**DEPARTMENT OF IMMUNOLOGY & MOLECULAR MEDICINE  
SHER-I- KASHMIR INSTITUTE OF MEDICAL SCIENCES  
SOURA, SRINAGAR**

**CERTIFICATE**

This is to verify that the study entitled **“Relationship between deleted in colorectal carcinoma (DCC VNTR) polymorphism and gallbladder cancer”** is a bonafide work of **Ms. TASEENA RASHID** and was conducted in the Cancer Diagnostics and Research Centre (CDRC), Department of Immunology and Molecular Medicine, Sher-i-Kashmir Institute of Medical Science, Soura Srinagar, under the supervision and entire satisfaction. This work has not been previously submitted for reward of any degree, diploma, fellowship or any other similar distinction.

It is further certified that no work under this heading has previously submitted to the University of Kashmir for the award of any degree or diploma, to the best of my behalf.

  
**Head & Supervisor**  
**DR. ZAFAR AMIN SHAH**  
Dr. Zafar Amin Shah  
Professor & Head  
Deptt. Of Immunology & Mol. Med  
SKIMS, Srinagar  
Dept. of Immunology & Molecular  
Medicine  
SKIMS, Soura, Srinagar.

  
**Supervisor**  
Dr. Manzoor Ahmad Malik  
Assistant Professor  
Cancer Diagnostics & Research Centre  
Dept. of Immunology & Molecular  
Medicine  
SKIMS, Soura, Srinagar.



**Molecular Biophysics Unit, Indian Institute of Science,  
Bangalore- 560012, India**



**CERTIFICATE**

**This is to certify that the dissertation entitled “Residue specific contributions to the formation of 6HB in gp41 subunit of HIV-1 envelope inferred from saturation mutagenesis” submitted by Tehleen, to the University of Kashmir, for the degree masters of science is based on the results of experiments and investigations carried out by her under my supervision and guidance at Indian Institute of Science, Bangalore. This is also to clarify that the above said work has not been previously submitted for an award of any degree, diploma or fellowship in any Indian or foreign university.**

*Rdy*

Professor of Molecular Biophysics  
Indian Institute of Science  
Bangalore - 560 012

**Prof. Raghavan Varadarajan**

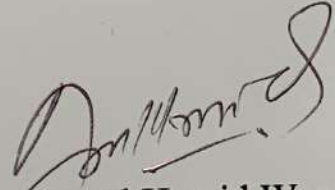
**Signature of the Principal Investigator**

DEPARTMENT OF BIOTECHNOLOGY  
UNIVERSITY OF KASHMIR  
Srinagar190006



**TO WHOM IT MAY CONCERN**

This is to certify that this Dissertation report titled “Studying the role of protein kinase CK2 in chromatin organization” comprises the work done by “GAZALA NAZIR” under my supervision at the Department of Biotechnology, University of Kashmir from January 2018 to June 2019 for the partial fulfillment of Masters of Science in Clinical Biochemistry (4<sup>th</sup> semester).

  
Dr. Ajaz ul Hamid Wani  
SUPERVISOR



## Department of Biochemistry

Govt. Medical College Srinagar

Karan-Nagar, Srinagar, Jammu & Kashmir, India-190010

(Research Centre of University of Kashmir)

Tel: Off: 0194-2453114; 2453115; 2452013ext. 595 FAX: 0194-2453115, Mob: 9797873511; 9622220953,  
Email: zululubaba@gmail.com, sabumajid@yahoo.com, <http://www.gmcs.edu.in>

### CERTIFICATE

This is to certify that the study entitled "*Status of Serum Electrolytes, lipid and thyroid profile in Type II Diabetes Mellitus in Kashmir Valley India*" is an original and independent work of *Ms. Anjum Nisa* submitted to the Department of Clinical Biochemistry, University of Kashmir, Hazratbal, Srinagar for the partial fulfillment of Masters degree in Clinical-Biochemistry. She has done her work under our guidance and supervision in the Department of Biochemistry, Govt. Medical College Srinagar, Karan-Nagar, Srinagar, Jammu & Kashmir, India-190010. The work undertaken by her has not been previously submitted for award of any degree, diploma, fellowship or other similar distinction from this institution.

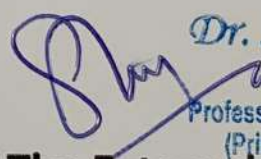
Prof (Dr.) Sabhiya Majid  
Head of the Department  
Department of Biochemistry  
Govt. Medical College, Srinagar  
(Supervisor)

Professor & Head



## CERTIFICATE OF EXTERNAL GUIDE

This is to certify that the dissertation entitled “ **INSULIN INDUCED LIPODYSTROPHY AMONG TYPE 1 AND TYPE 2 DIABETIC PATIENTS IN KASHMIR**”, is subtitled by **MR ASIF HASSAN** En. No **17057119002** to the Clinical Biochemistry Department , School of Biological Science , University of Kashmir Srinagar in partial fulfilment of requirement for the degree of M Sc Clinical Biochemistry is a record of work carried out by him under my supervision of **DR SHARIQ RASHID MASOODI , PROFESSOR ENDOCRINOLOGY DEPARTMENT at SHER E KASHMIR INSTITUTE OF MEDICAL SCIENCE , SOURA SKIMS**.The contents of this dissertation in full or in parts , has not been submitted by any other institutions for the award of Degree or Diploma.

  
*Dr. Shariq Masoodi*  
MD, DM, FACP, FRCP  
Professor of Endocrinology, SKIMS  
(Principal Investigator, YDR)

**Signature of The External Guide,**

**Dr Shariq Rashid Masoodi,**

**Investigator ,**

**Sher e Kashmir Institute of Medical Sciences,**

**Srinagar.**



**SPECIAL CENTRE FOR MOLECULAR MEDICINE**

**JAWAHARLAL NEHRU UNIVERSITY**

**NEW DELHI 110067, INDIA**

## **CERTIFICATE OF THE GUIDE**

Certified that the project work, which is being carried out by **AZRA AMIN (Enrolment No: 17057119003)** to the department of **Clinical Biochemistry, University of Kashmir** entitled "**Cloning, expression and purification of Prefoldin subunit 6 of *Plasmodium falciparum***" in partial fulfilment for the degree of **Masters of clinical Biochemistry** submitted to Department of Clinical Biochemistry, University of Kashmir was carried out under my guidance at Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi. The work presented is original and has not been submitted in part or fulfilment of any degree or diploma to any other university or institute.

**Candidate: Azra Amin**

**Signature:** *Azra Amin*

**Dr. Shailja Singh**  
Associate Professor  
Special Centre for Molecular Medicine  
Jawaharlal Nehru University, Delhi-110067

**Dr. Shailja Singh**

**Associate Professor**

**Special Centre for Molecular Medicine  
Jawaharlal Nehru University, New Delhi**

# MOLECULAR REPRODUCTION, DEVELOPMENT AND GENETICS

INDIAN INSTITUTE OF SCIENCE



## CERTIFICATE OF THE EXTERNAL GUIDE

This is to certify that the dissertation entitled “**Cloning, expression and purification of eIF4B truncations in *Saccharomyces cerevisiae***” is submitted by **Mr. Fayaz Ahmad Lone**, En. No : 1705719005 to the Clinical Biochemistry Department, School of Biological science, Kashmir university, Srinagar in partial fulfilment of the requirements for the degree of M.Sc. (Clinical Biochemistry) is a record of work carried by him under my supervision (**Dr. Tanweer Hussain**, Assistant Professor, MRDG, IISc, Bangalore). The contents of this dissertation, in full or in parts, have not been submitted to any other Institute or University for the award of any Degree or Diploma.

Signature of the Guide

**TANWEER HUSSAIN**

Assistant Professor

E-mail: hussain@iisc.ac.in

Tel: +91 (0) 80-2293 3262

Dr. TANWEER HUSSAIN  
Assistant Professor  
Molecular Reproduction, Development & Genetics  
Indian Institute of Science  
Bangalore - 560 012, India



I hereby declare that the relationship between Glutathione-S-Transferase (M1&T1) polymorphism and susceptibility to Kidney Valley comprises the original work done by me under the supervision of Dr. Manzoor Ahmad Malik, Assistant Professor Soura Kashmir.

**DEPARTMENT OF IMMUNOLOGY & MOLECULAR MEDICINE**

HASSINA AKHTAR

**S. K. INSTITUTE OF MEDICAL SCIENCES, SRINAGAR**

M.Sc Student

**CERTIFICATE**

This is to verify that the study entitled **“Relationship between Glutathione-S-Transferase (M1&T1) and Cholelithiasis susceptibility in Kashmir Valley”** is a bonafide work of **HASSINA AKHTAR** and was conducted in the Cancer Diagnostics and Research Centre (CDRC), Department of Immunology and Molecular Medicine, Sher-i-Kashmir Institute of Medical Science, Soura Srinagar, under the supervision and entire satisfaction. This work has not been previously submitted for reward of any degree, diploma, fellowship or any other similar distinction. It is further certified that no work under this heading has previously submitted to the University of Kashmir for the award of any degree or diploma, to the best of my behalf.

**Head & Supervisor**

**DR. ZAFAR AMIN SHAH**

Dr. Zafar Amin Shah

Professor & Head  
Deptt. of Immunology & Mol. Med  
SKIMS, Srinagar

Dept. of Immunology & Molecular Medicine

SKIMS, Srinagar

**Supervisor**

**Dr. Manzoor Ahmad Malik**

Assistant Professor

Cancer Diagnostics and Research Centre


Dept. of Immunology & Molecular Medicine

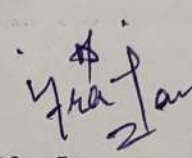
SKIMS, Srinagar


Dr. Manzoor Ahmad Malik - 19.  
Asst. Professor  
Immunology & Mol. Medicine  
SKIMS, SOURA

## CERTIFICATE OF THE GUIDE

Certified that the project work, entitled "Subcellular distribution of 78 and 35 kDa variants of SG2NA in NIH3T3 and MCF-7 cells" was carried out by **Ifra Jan** under my guidance at School of Life Sciences, Jawaharlal Nehru University, New Delhi. This report is being submitted in partial fulfillment for the degree of **Masters of Clinical Biochemistry**, Department of Clinical Biochemistry, University of Kashmir.

  
Shyamal K. Goswami  
Professor, School of Life Sciences,  
Jawaharlal Nehru University  
New Delhi 110067

  
Ifra Jan  
Masters of Clinical Biochemistry  
Department of Clinical Biochemistry  
University of Kashmir

  
Shyamal K. Goswami Ph.D.,  
Professor School of Life Sciences  
Jawaharlal Nehru University  
New Delhi - 110067, India



**ADVANCED CENTRE FOR HUMAN GENETICS  
SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES,  
SOURA, SRINAGAR, KASHMIR**



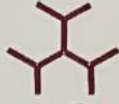
**Certificate**

This is to certify that the work in this dissertation entitled **“Role of FOX p3 2383 C>T SNP in the pathogenesis of Gastric Cancer in Kashmir Valley”** is a bonafide work of **Ms. Insha Ismail** and has been carried out under my guidance and supervision in the Department of Advanced Centre for Human Genetics, Sher-I-Kashmir Institute of Medical Science, Soura, Srinagar.

It is further certified that no work under this heading has previously been submitted to the University of Kashmir for the award of any degree, diploma, fellowship or any other similar distinction to the best of my belief.

**Dr. Dil Afroze**  
**Professor & Head**  
**Department of Advanced**  
**Centre for Human Genetics**  
**SKIMS**

**Dr. Dil Afroze**  
**Professor & Head**  
Advanced Centre for Human Genetics  
Sher-I-Kashmir Institute of Medical Science  
Soura, Srinagar



## राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान

जैव प्रौद्योगिकी विभाग, विज्ञान और प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान

### NATIONAL INSTITUTE OF IMMUNOLOGY

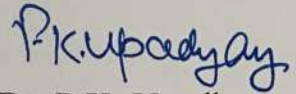
An Autonomous Research Institute of the Department of Biotechnology, Ministry of Science and Technology  
Government of India

#### CERTIFICATE

This is to certify that the thesis work entitled "Investigating the Immunological properties of reprogrammed monocytes" has been carried out by Ms. Ishrat Ashraf during February 2019 - June 2019, to be submitted to the Department of Clinical Biochemistry, University of Kashmir, Srinagar, 190006 J&K, in the partial fulfilment of the requirements for the Degree of MSc, in Clinical Biochemistry. The content of the thesis embodies results of original work and studies carried out by the student herself. The contents of the thesis do not form the basis for the award of any other degree to any other candidate from this or any other university. The contents of the work are original and have been carried out under my supervision in National Institute of Immunology, New Delhi.

Date 17 June 2019

Supervisor

  
Dr. P.K. Upadhyay

प्रमोद उपाध्याय, पीएच डी. / Pramod Upadhyay, Ph. D.  
वैज्ञानिक / Scientist  
राष्ट्रीय प्रतिरक्षा विज्ञान संस्थान  
NATIONAL INSTITUTE OF IMMUNOLOGY  
अरुणा आसफ अली मार्ग / Aruna Asaf Ali Marg  
नई दिल्ली-110067 / New Delhi-110067

अरुणा आसफ अली मार्ग, नई दिल्ली-110067, दूरभाष (ईपीएबीएक्स): 011-26162121-45 और 26717010-19  
फैक्स : 091-11-26742125, 26742626; तार : IMMUNOLOGY; वेबसाइट: www.nii.res.in  
Aruna Asaf Ali Marg, New Delhi - 110067; Telephones(EPABX):011-26717121-45 & 26717010-19  
Fax: 091-11-26742125, 26742626; Grams : IMMUNOLOGY; Website : www.nii.res.in

Modify Title.



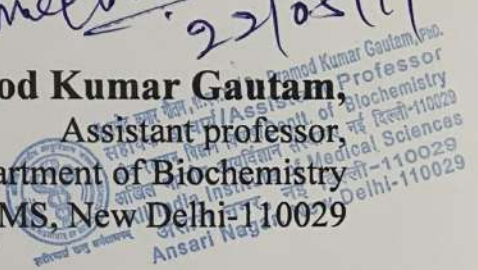
Department of Biochemistry  
ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
Ansari Nagar, New Delhi – 110029

**CERTIFICATE**

This is to certify that the thesis entitled “PGEX2-T Based  $\beta$  Defensin Primer Designing and Isolation, Purification and Characterization of Neutrophil, Macrophage, Bone Marrow and mesenchymal Stem Cells from Swiss Albino Mice” comprises the original work done by Mr. Jehangir Shah Syed Bukhari bearing Roll No. 17057119013 under our supervision and guidance in the Department of Biochemistry, All India Institute of Medical Sciences, New Delhi, India w.e.f. 01-01-2019 to 30-06-2019. He is sincere, hardworking and well-behaved student. I wish him success in the life.

**Supervisor**  
*Pramod Kumar Gautam*  
22/05/19

**Dr. Pramod Kumar Gautam,**  
Assistant professor,  
Department of Biochemistry  
AIIMS, New Delhi-110029





# भारतीय समवेत औषध संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

केनाल रोड, जम्मू - 180001

**Indian Institute of Integrative Medicine**

(Council of Scientific & Industrial Research)

Canal Road, Jammu - Tawi - 180 001 (INDIA)

Fayaz A Malik <sup>7627</sup>

15/07/2019

## To whom it may Concern

This is to certify that Kinza Ajaz has worked in the division of Cancer Pharmacology of Indian Institute of Integrative Medicine (IIIM) Sanat Nagar Srinagar as a project trainee for six months under the supervision of Dr. Fayaz A Malik. During this period she has worked on the research project entitled "Screening of Small Molecules as Neuroprotective agents against Corticosterone Induced impairment in depression based cell models". The work done by Kinza Ajaz under this project has not been published previously or submitted for the award of degree, diploma, fellowship or any other similar distinction. It is further certified that no work under this heading from CSIR-IIIM has previously submitted to University of Kashmir for the award of any degree or diploma to the best of my belief.

Sincerely

Fayaz Malik Ph.D

Pr. Scientist

CSIR-Indian Institute of Integrative Medicine

Jammu, 180001 INDIA.

Email: fmalik@iiim.ac.in

Fayaz Malik, Ph.D  
CSIR-Indian Institute of Integrative Medicine  
Canal Road, Jammu-180001

**Department of Advanced Centre for Human Genetics  
Sher-i-Kashmir Institute of Medical Sciences,  
Soura, Srinagar, Kashmir**



**Certificate**

This is to certify that the work in this dissertation entitled **“Role of ACE gene insertion/deletion (I/D) polymorphic sequence variations in patients with Deep Vein Thrombosis (DVT) in Kashmir valley”** is a bonafide work of Ms. Mehnaz Jan and has been carried out under my guidance and supervision in the Department of Advanced Centre for Human Genetics, Sher-I-Kashmir Institute of Medical Sciences, Soura, Srinagar. It is further certified that no work under this heading has previously been submitted to the University of Kashmir for the award of any degree, diploma, fellowship or any other similar distinction to the best of my belief.

**Dr. Dil Afroze**  
**Professor & Head**  
**Department of Advanced**  
**Centre for Human Genetics**  
**Dr. Dil-Afroze**

**Professor and Head**

Advanced Centre for Human Genetics  
Sher-i-Kashmir Institute of Medical Science  
Soura, Srinagar



**DEPARTMENT OF IMMUNOLOGY & MOLECULAR MEDICINE  
SHER-I- KASHMIR INSTITUTE OF MEDICAL SCIENCES  
SOURA, SRINAGAR**

**CERTIFICATE**


This is to verify that the study entitled "To study the role of genetic variants of deleted in colorectal carcinoma (DCC rs714 A>G) polymorphisms in gallbladder cancer in Kashmir Valley" is a bonafied work of Mr. Mohammad Amjad Hussain and was conducted in the Cancer Diagnostics and Research Centre (CDRC), Department of Immunology and Molecular Medicine, Sher-i-Kashmir Institute of Medical Science, Soura Srinagar, under the supervision and entire satisfaction. This work has not been previously submitted for reward of any degree, diploma, fellowship or any other similar distinction.

It is further certified that no work under this heading has previously submitted to the University of Kashmir for the award of any degree or diploma, to the best of my behalf.

  
**Head of Department**

**Dr. Zafar Amin Shah**  
Prof. & Head

Dept. of Immunology & Molecular Medicine  
SKIMS, Soura, Srinagar.

  
**Supervisor**

**Dr. Manzoor Ahmad Malik**  
Assistant Professor  
11.7.19  
Dept. of Immunology & Molecular Medicine  
SKIMS, Soura, Srinagar.