

DEPARTEMENT OF IMMUNOLOGY AND MOLECULAR MEDICINE

SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES



CERTIFICATE

This is to certify that the study entitled “ **Methylenetetrahydrofolate Reductase Gene Polymorphism (C677T & A1298C) and risk of Chronic Myelogenous Leukemia In Kashmiri Population** ” is a bonafide work of Ms. **khushboo** and was conducted in the Cancer Research and Diagnostic 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.

Supervisor

Dr. Zaffar A Shah

Professor and Head

Deptt of Immunology & Molecular Medicine

(SKIMS)

Co- supervisor

Dr. Shahid M Baba

Senior Resident

Deptt of Immunology & Molecular Medicine

(SKIMS)

Dr. Shahid M. Baba
Senior Resident (SR-3100)
Dept. Of Immunology & Mol Medicine
SKIMS, Soura, Sgr.

DR. ZAFAR AMIN SHAH
Professor & Head
Deptt. Of Immunology & Mol Med
Srinagar

**DEPARTMENT OF CLINICAL BIOCHEMISTRY SKIMS,
SOURA, J&K**



CERTIFICATE

This is to certify that the dissertation titled “**Association of Interleukin-4 receptor alpha (IL-4R α) gene variant (A148G) with Asthma patients of Kashmiri Population -A hospital based study**” submitted by **JunaidNazir**, to the University of Kashmir, for the degree Masters of Science is based on the results of experiments and investigations carried out by him under my supervision and guidance at Sher-I-Kashmir Institute of Medical Sciences, Srinagar. 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.

Supervisor


Dr. Syed Mudassar

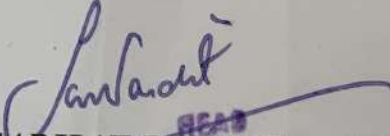
Professor and Head

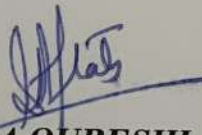


Sher-e-Kashmir
University of Agricultural Sciences and Technology of Kashmir
Division of Veterinary Microbiology & Immunology
Shuhama Campus, Srinagar-190006

Certificate

This is to certify that the student namely INSHA UL SUMER, student of Department of Clinical Biochemistry, University of Kashmir has carried out her dissertation work entitled "Detection, virulence gene profile and antibiogram of Staphylococcus aureus isolates from bovine mastitis" under our guidance and supervision for the partial fulfillment of the degree of Master's in Clinical Biochemistry.


Dr. FARHAT PANDIT
HEAD
DIV. MICROBIOLOGY & IMMUNOLOGY
(Head) U. V. & A. H. (SKUAST)
Shuhama/Anastong.


Dr. SABIA QURESHI
(Associate professor)



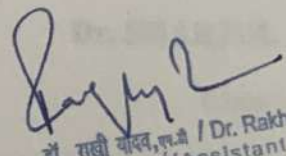
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110029

Dr. RAKHEE YADAV
MBBS; MD (Biochemistry)
Assistant Professor

Mob: 8826640014
Email: y.rakhee@yahoo.com

CERTIFICATE

This is to certify that the dissertation report entitled "**Study of expression of PERK and ATF6 genes in adipose tissue**" comprises of research work carried out by **Mr. Ishfaq Ahmad Padder** bearing **Roll No 16057119013**, a student of Masters degree in Clinical Biochemistry at University of Kashmir, Srinagar, under my supervision at Department of Biochemistry, All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29, India. He has worked in my lab during **January 2018 to June 2018** towards the partial fulfilment of Masters Degree in Clinical Biochemistry at University of Kashmir, Srinagar, India. This work is original and has not been done earlier by anyone else. The results presented in this report in whole have not been submitted elsewhere for any academic degree.


डॉ. रक्षी यादव, ए.बी. / Dr. Rakhee Yadav, MD
सहायक प्राध्यापक / Assistant Professor
योग रसायन विभाग / Dept of Biochemistry
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-110029
All India Institute of Medical Sciences
अंसारी नगर, नई दिल्ली-110029
Ansari Nagar, New Delhi-110029

Sher-I-Kashmir Institute of Medical Science
Soura, Srinagar, Kashmir



Certificate

This is to certify that the work in the dissertation entitled "*APO-A1 POLYMORPHIC GENE VARIATION AND ITS ASSOCIATION WITH ACUTE CORONARY SYNDROME (ACS) IN KASHMIRI POPULATION*" is a bonafide work of Ms. Iqra Niyaz and has been carried out under my guidance and supervision in the Department of Advanced Center 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. Arshad Ahmad Pandith

Supervisor

Advanced Center for Human Genetics

Sher-I-Kashmir Institute of Medical Science

Soura, Srinagar

सी सी एम बी CCMB

कोशिकीय एवं आणविक जीव विज्ञान केन्द्र
CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY

उप्पल रोड़, हैदराबाद - 500 007, भारत
Uppal Road, Hyderabad - 500 007, India



CERTIFICATE

This is to certify that NUSRAT NAZIR, student of Department of Clinical BioChemistry, University of Kashmir, Srinagar has carried out her Dissertation project title "Localization of META1 protein in *Leishmania donovani*" under my supervision from January 8, 2018 to June 23, 2018 for the partial fulfillment of the degree of Masters in Science. The work submitted is original to the best of my knowledge.

Date : 23rd June 2018

Place: Hyderabad.

Dr. Tushar Vaidya

Senior Principal Scientist

CSIR-CCMB, Hyderabad

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वेब साइट <http://www.ccmb.res.in>
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Department of Advanced Center for Human Genetics
Sher-i-Kashmir institute of medical sciences, Sgr.



CERTIFICATE

Certified that the work in the dissertation entitled "*GENE POLYMORPHISM OF IL-6 AND ITS ASSOCIATION WITH ^{NON ALCOHOLIC} FATTY LIVER IN KASHMIRI POPULATION*" is bona fide work of Ms. Shaista Showkat and has been carried out under my guidance and supervision in the Department of Advanced Center for Human Genetics SKIMS Soura Srinagar.

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 belief.

Dr. Mahrukh Hameed Zargar

(Supervisor)

Department of Genetics Center

Soura SKIMS Srinagar.



Department of Biochemistry

Govt. Medical College Srinagar

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(Research Centre of University of Kashmir)

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Email: zululubaba@gmail.com, sabumajid@yahoo.com, <http://www.gmcs.edu.in>

CERTIFICATE

This is to certify that the study entitled "*To study serum electrolyte and lipid profile in patients with Hypothyroidism in Kashmir valley, India*" is an original and independent work of Ms. Saleema Jabeen, 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 my guidance and supervision in the Department of Biochemistry Government Medical College (GMC) Srinagar-Kashmir. 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
(Supervisor)
Professor & Head
Department of Biochemistry
Govt. Medical college Srinagar



Department of Clinical Biochemistry
Sher-I-Kashmir Institute of Medical Sciences,
Soura, Srinagar.

CERTIFICATE

This is to certify that the thesis entitled “**Evaluation of 2518 G>A Single Nucleotide Polymorphism of Monocyte Chemoattractant Protein-1 (MCP-1) Gene in Kashmiri Polycystic Ovary Syndrome (PCOS) Women**” is a bonafide work of Miss **Saima Ibrahim** and has been carried out in the Department of Clinical Biochemistry, Sher-I-Kashmir Institute of Medical Sciences, Srinagar, Kashmir under my direct guidance and supervision.

This work has not been submitted partly or wholly for the award of any degree, diploma, fellowship or associateship.

Prof. (Ms.) Syed Mudassar
Professor & Chair
(Supervisor)

UNIVERSITY OF KASHMIR
DEPARTMENT OF BIOTECHNOLOGY

Hazratbal, Srinagar

190006



TO WHOM IT MAY CONCERN

This is to certify that *Safiya Mehraj*, M.Sc. Clinical Biochemistry (4th semester) of university of kashmir, has successfully completed her project work entitled as "*Understanding the dynamic role of SPT6 protein in Chromatin Organization*" in Department of Biotechnology under the guidance of Dr.Ajaz Ul H.Wani, Faculty, department of Biotechnology for a period of 6 months.

Dr. Ajaz UL H. Wani
Principal Investigator
Dept. Biotechnology

Dr. Khalid Majid Fazili
Professor Head
Dept. of Biotechnology
University of Kashmir



BIOCHEMISTRY AND MOLECULAR BIOTECHNOLOGY LABORATORY,
DIVISION OF BASIC SCIENCES AND HUMANITIES,
SHERI KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND
TECHNOLOGY, SHALIMAR SRINAGAR, KASHMIR-190025

CERTIFICATE

This is to certify that the dissertation report entitled "**A PRELIMINARY *IN-VITRO* AND *IN-VIVO* INVESTIGATION ON ANTI-HYPERGLYCEMIC POTENTIAL OF AQUEOUS EXTRACT OF *AMARANTHUS CAUDATUS***" embodies the original research work carried out by **SHAHIDA SHOWKAT** (bearing university Roll no. 16057119025, a student of Master's degree in Clinical Biochemistry, University of Kashmir, Srinagar, under my supervision in Biochemistry and Molecular Biotechnology Laboratory, Division of Basic Sciences and Humanities, SKUAST-K Shalimar-190025. For the partial fulfillment of the requirement for the award of Master's degree in Clinical Biochemistry at University of Kashmir, Srinagar, she has worked for her internship (Dissertation work) under my supervision. The work undertaken by her is original and the results presented in this report, in whole have not been submitted elsewhere for any academic degree.

DR. IMTIAZ MURTAZA

Associate Professor cum Senior Scientist

SKUAST-K

Shalimar-190025

सीसीएमबी

कोशिकीय एवं आणविक जीवविज्ञान केन्द्र
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डॉ. राकेश कुमार मिश्र
निदेशक

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CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY
(Council of Scientific & Industrial Research)
Uppal Road, Hyderabad - 500 007, India

Dr. Rakesh K. Mishra
Director

CERTIFICATE

This is to certify that Sadaf Saleem, student of Department of Clinical Biochemistry, University of Kashmir, Srinagar has carried out her Dissertation project entitled "**Characterization of Choline transporter in locomotory and sensory behavior of *Drosophila* larvae**" under my supervision from January 8, 2018 to June 23, 2018 for the partial fulfillment of the degree of Masters in Science. The work submitted is original to the best of my knowledge.

Date: 23.06.2018

[Rakesh K. Mishra]

Place: Hyderabad

सी सी एम बी CCMB

सीएसआईआर - कोशिकीय एवं आणविक जीवविज्ञान केन्द्र
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Uppal Road, Hyderabad, Telangana - 500 007. India.



Dr. Amit Asthana
Principal Scientist

Monday, July 9, 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Ruhban Ansar, M. Sc. (Clinical Biochemistry) student from University of Kashmir, Srinagar has completed his final year project entitled "**Fabrication & characterization of paper microfluidic devices using CCMB ink & its applications**" under our guidance from January to June 2018 at CSIR- Centre for Cellular & Molecular Biology, Hyderabad, for the partial fulfillment of his M. Sc. Degree.

Sincerely yours,

(Amit Asthana)

Centre for Cellular & Molecular Biology
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वेब साइट
Website

<http://www.ccmb.res.in>



Certificate

This is to certify that M. Sc. dissertation entitled “Serological Proteome Analysis To Study Autoantibody Response In Gallbladder Carcinoma” has been carried out at National Institute of Pathology, New Delhi, by **Zeeshan Hyderi**, a student of M. Sc. Clinical Biochemistry, Department of Clinical Biochemistry, University of Kashmir, Srinagar (J and K), from January-May 2018 under our supervision for the partial fulfillment of the requirements of the M. Sc. degree. This research work embodies the original work done by Mr. Zeeshan Hyderi and has not been submitted in part for the award of any other degree.

Supervisor

Dr. Poonam Gautam

Scientist C and In-charge, Central Proteomics facility

Co-Supervisor

Mr. Javed Akhtar

CSIR-JRF

Dated: 01.06.2018

Poonam
01/06/2018

Dr. Poonam, Gautam
Scientist C,
National Institute of Pathology (ICMR)
New Delhi-110029, India

Javed Akhtar

राष्ट्रीय विकृति विज्ञान संस्थान

(भारतीय आयुर्विज्ञान अनुसंधान परिषद्)

“श्रीरामाचारी भवन”

सफदरजंग अस्पताल परिसर,

पोस्ट बॉक्स नं. 4909, नई दिल्ली-110029 (भारत)



NATIONAL INSTITUTE OF PATHOLOGY

(Indian Council of Medical Research)

“SRIRAMACHARI BHAWAN”

Safdarjung Hospital Campus,

Post Box No. 4909, New Delhi-110029 (India)

CERTIFICATE

This is to certify that the dissertation report entitled “**Characterization of colistin resistant *Klebsiella* isolates for antibiotics susceptibility and genetic variation in phoQ gene**” comprises of research work carried out by **Mr. Wajid Mohammad Sheikh** bearing **Roll No 16057119033**, a student of Master’s degree in Clinical Biochemistry at University of Kashmir, Srinagar, under my supervision at ICMR-National Institute of Pathology, Safdarjung hospital campus, Ansari Nagar, New Delhi-29, India. He has worked in my lab during **February 2018 to May 2018** towards the partial fulfilment of Master’s Degree in Clinical Biochemistry at University of Kashmir, Srinagar, India. This work is original and has not been done earlier by anyone else. The results presented in this report in whole have not been submitted elsewhere for any academic degree.

Ruchi Singh
11/05/18

(Dr. Ruchi Singh)

डा० रुचि सिंह / Dr. RUCHI SINGH

वैज्ञानिक-ई / Scientist-E

राष्ट्रीय विकृति विज्ञान संस्थान (आई.सी.एम.आर.)
National Institute of Pathology (ICMR)

श्रीरामाचारी भवन / Sriramachari Bhawan

सफदरजंग अस्पताल परिसर

Safdarjung Hospital Campus

नई दिल्ली-110 029 / New Delhi-110 029

DEPARTMENT OF IMMUNOLOGY AND MOLECULAR MEDICINE

Sher-I-Kashmir Institute of Medical Sciences

Soura, Srinagar-190011, Kashmir



This is to certify that the work in the dissertation entitled "*Evaluation of different Endoplasmic reticulum Stress kinases (PERK,ATF4) & ER Chaperons (BIP/GRP78) in Myeloproliferative disorders*" was conducted in the *Department of Immunology and Molecular Medicine, Sher-i-Kashmir Institute of Medical Sciences, Soura, Srinagar*, under the supervision of *Dr. Dil Afroze, Professor Department of Immunology and Mol. Medicine*. This work has not been previously submitted for award of any degree, diploma, fellowship, associate-ship or other similar distinction and will not be published in full or part.

Supervisor

Dr. Dil Afroze

Professor

**Department of Immunology & Molecular
Medicine**

Sher-I-Kashmir Institute of Medical Sciences

Soura, Srinagar-190011



**BIOCHEMISTRY AND MOLECULAR BIOTECHNOLOGY LABORATORY,
DIVISION OF BASIC SCIENCES AND HUMANITIES,
SHERI KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND
TECHNOLOGY, SHALIMAR SRINAGAR, KASHMIR-190025**

CERTIFICATE

This is to certify that the dissertation report entitled “**PHYTOCHEMICAL ANALYSIS AND ANTI MICROBIAL ACTIVITY OF *THYMUS SERPHYLLUM* AGAINST PATHOGENIC BACTERIA AND FUNGUS**” embodies the original research work carried out by ARBEENA SADIQ (bearing university Roll no. 16057119004, a student of Master’s degree in Clinical Biochemistry, University of Kashmir, Srinagar, under my supervision in Biochemistry and Molecular Biotechnology Laboratory, Division of Basic Sciences and Humanities, SKUAST-K Shalimar-190025. For the partial fulfillment of the requirement for the award of Master’s degree in Clinical Biochemistry at University of Kashmir, Srinagar she has worked for her internship (Dissertation work) under my supervision. The work undertaken by her is original and the results presented in this report, in whole have not been submitted elsewhere for any academic degree.


DR. IMTIYAZ MURTAZA

Associate Professor cum Senior Scientist

SKUAST-K

Shalimar-190025



DEPARTMENT OF IMMUNOLOGY & MOLECULAR MEDICINE
S K INSTITUTE OF MEDICAL SCIENCES, SRINAGAR

Certificate

This is to certify that the study entitled "*Glutathione-S-transferase (M1&T1) and Gallbladder cancer risk in Kashmiri population*" is a bonafide work of Ms. **Aneesa Showkat** and was conducted in the Cancer Diagnostic 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.

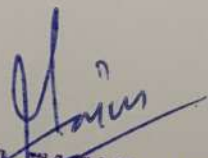
It is further certified that no work under this heading has previously submitted to the University of Kashmir for the award of any degree or diploma, to the best of my belief.

Supervisor

Dr. Zafar Amin shah

Prof. & Head

Dept. of Immunology
& Molecular Medicine
SKIMS, Srinagar


DR. ZAFAR AMIN SHAH
Professor & Head
Deptt. Of Immunology & Mol. Med
SKIMS, Srinagar

Co-Supervisor

Dr. Manzoor Ahmad

Asst. Professor

Dept. of Immunology &
Molecular Medicine (CDRC)
SKIMS, Srinagar


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

Sher-i-Kashmir Institute of Medical Science
Soura, Srinagar, Kashmir.



Certificate

Certified that the work in the dissertation entitled "*Foxp3 Polymorphic Gene Variation and its Association with Pregnancy Losses by Recurrent Miscarriage in Kashmiri Population*" is bona fide work of Ms. Amreena Hameed and has been carried out under my guidance and supervision in the Department of Advanced Center for Human Genetics SKIMS, Soura, Srinagar.

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 belief.

Dr. Arshad Ahmad Pandith

Supervisor

Advanced Center for Human Genetics

Srinagar-190011

DEPARTMENT OF IMMUNOLOGY AND MOLECULAR MEDICINE

SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES

Soura, Srinagar-190011, Kashmir



This is to certify that the work in the dissertation entitled *“Elucidating the Role of Chemokine Genetic Variants in Susceptibility to Tuberculosis among Individuals of Kashmiri Population ”* is a bonafide work of *Ms Aamina Hamid* and was conducted in the *Department of Immunology and Molecular Medicine, Sher-i-Kashmir Institute of Medical Sciences, Soura, Srinagar*, under the supervision of *Dr. Dil Afroze, Professor Department of Immunology and Mol. Medicine*. This work has not been previously submitted for award of any degree, diploma, fellowship, associate-ship or other similar distinction.

Supervisor

[Signature]
Dr. Dil Afroze

Professor

Department of Immunology and Molecular Medicine
Sher-I-Kashmir Institute of Medical Sciences
Soura, Srinagar-190011, Kashmir.

सी सी एम बी CCMB

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Uppal Road, Hyderabad, Telangana - 500 007. India.



CERTIFICATE

This is to certify that the research work presented in this report "*Deciphering the interaction between Neuronal Ca²⁺ Sensor Proteins (NCS-1 and NCALD) and Insulin*" has been carried out by **Nelofar Shareef**, student of Clinical Biochemistry, from January to June 2018 under my supervision and this is her bona fide work. The research work is original and has not been submitted for any other degree of this or any other University. Further, she has been a regular, enthusiastic student and worked under my guidance as a full-time student at the CSIR-Centre for Cellular and Molecular Biology until the submission of the dissertation to the University of Kashmir.

Dr. Yogendra Sharma, PhD
Chief Scientist and Group Leader

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DEPARTEMENT OF IMMUNOLOGY AND MOLECULAR MEDICINE

SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES



CERTIFICATE

This is to certify that the study entitled “ **Glutathione-S-Transferase (M1 & T1) Gene Polymorphism and Risk of Chronic Myelogenous Leukemia in Kashmiri population**” is a bonafide work of Ms. **Tabasum** and was conducted in the Cancer Research and Diagnostic 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.

Supervisor

Dr. Zaffar A Shah

Professor and Head

Deptt of Immunology & Molecular Medicine

(SKIMS)

Zaffar Amin Shah
DR. ZAFAR AMIN SHAH
Professor & Head
Deptt. of Immunology & Mol Med
SKIMS, Srinagar

Co-supervisor

Dr. Shahid M Baba

Senior Resident

Deptt of Immunology & Molecular Medicine

(SKIMS)

Shahid
Dr. Shahid M. Baba
Senior Resident (SR-3100)
Dept. Of Immunology & Mol Medicine
SKIMS, Soura, Sgr.



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Dr. Pramod Kumar Gautam
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Assistant Professor

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E-mail: pramodgautam_13@yahoo.com; gautam@aiims.edu

Date..10/05/18

CERTIFICATE

This is to certify that Mr. Mubashir Hamid, bearing Roll No. 16057119017, student of M.Sc. in Clinical Biochemistry, at Department of Clinical Biochemistry, University of Kashmir, Srinagar has successfully completed his six month dissertation work on **“Silver Nano-Particles (AgNPs) Modulates The Function of Macrophage Phenotype and Regress The Cancer Progression”** w.e.f. 01-01-2018 to 30-06-2018 in the lab of undersigned, Department of Biochemistry, AIIMS, New Delhi. He is sincere, hardworking and well behaved student.

I wish him success in the life.

Pramod Kumar Gautam

Dr. Pramod Kumar Gautam, Ph.D.
Assistant Professor
(Supervisor)



सहायक आचार्य, जैव रासायन विभाग, आर्य समाज विश्वविद्यालय, नई दिल्ली-110029
All India Institute of Medical Sciences
अंसारी नगर, नई दिल्ली-110029
Ansari Nagar, New Delhi-110029

SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES

DEPARTMENT OF CLINICAL BIOCHEMISTRY

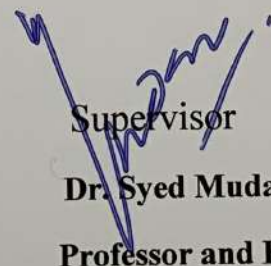
SOURA, SRINAGAR, JAMMU AND KASHMIR-190011



CERTIFICATE

This is to certify that the dissertation entitled “**Elucidation of Interleukin 4 & Interleukin 13 levels and their correlation with Asthma patients among Kashmiri Population - A Case Control Study**” at SKIMS, Soura, comprises research work carried out by *Mehraj U Din Sheikh* student of University of Kashmir bearing Enrolment No. 1605711 **U**, and submitted to the University of Kashmir, for the degree Masters of Science is based on the results of experiments and investigations carried out by him under my supervision and guidance at Sher-I-Kashmir Institute of Medical Sciences, Srinagar.

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.


Supervisor
Dr. Syed Mudassar
Professor and Head

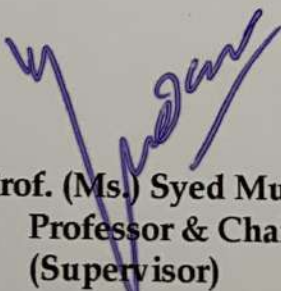


Department of Clinical Biochemistry
Sher-I-Kashmir Institute of Medical Sciences,
Soura, Srinagar.

CERTIFICATE

This is to certify that the thesis entitled "Screening of -675 4G/5G Insertion/Deletion Polymorphism in the Promoter Region of the Plasminogen Activator Inhibitor-1 (PAI-1) gene in Kashmiri Polycystic Ovary Syndrome (PCOS) Women" is a bonafide work of Miss Humaira Shafi and has been carried out in the Department of Clinical Biochemistry, Sher-I-Kashmir Institute of Medical Sciences, Srinagar, Kashmir under my direct guidance and supervision.

This work has not been submitted partly or wholly for the award of any degree, diploma, fellowship or associateship.


Prof. (Ms.) Syed Mudassar
Professor & Chair
(Supervisor)

*Department of
Advanced Center for Human Genetics
Sher-i-kashmir institute of medical sciences
Soura, Srinagar(190011)*



CERTIFICATE

This is to Certify that the study entitled “ *Gene polymorphism of CaSR and its association with ~~pancreatitis~~ pancreatitis in kashmiri population*” is bonafide work of *Ms. Henna kounser* and has been carried out under my guidance and supervision in the Department of Advanced Center for Human Genetics SKIMS Soura Srinagar. 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 belief.


Dr. Mahrukh Hamid

Associate professor and Supervisor
Advanced Centre for Human genetics
SKIMS, Soura Srinagar.



IISc, Bangalore

CERTIFICATE

This is to certify that the dissertation titled **Expression, purification and biophysical characterisation of Conotoxin Ar1430 using cytb5 as a fusion host** submitted by Sunia Faiz 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.


Signature of the Principle Investigator

Prof. Siddhartha P. Sarma

SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES

DEPARTMENT OF CLINICAL BIOCHEMISTRY

SOURA, SRINAGAR, JAMMU AND KASHMIR-190011



CERTIFICATE

This is to certify that the dissertation entitled “**Elucidation and Impact of IL-4 Intron 3 VNTR 70bp Repeat in Allergic Rhinitis among Kashmiri Population- A Hospital based study**” at SKIMS, Soura, comprises research work carried out by **GULZAR AHMAD WANI** student of University of Kashmir bearing Enrolment No. 16057119008, and submitted to the University of Kashmir, for the degree Masters of Science is based on the results of experiments and investigations carried out by him under my supervision and guidance at Sher-I-Kashmir Institute of Medical Sciences, Srinagar.

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.

Supervisor

Dr. Syed Mudassar
Professor and Head

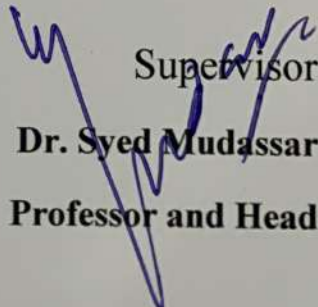
**DEPARTMENT OF CLINICAL BIOCHEMISTRY SKIMS,
SOURA, J&K**



CERTIFICATE

This is to certify that the dissertation titled “**Association of Interleukin-4 receptor alpha (IL-4R α) gene polymorphism (Q576R) with Atopy patients of Kashmiri Population- A hospital based study**” submitted by **Suhail Ashraf Bhat**, to the University of Kashmir, for the degree Masters of Science is based on the results of experiments and investigations carried out by him under my supervision and guidance at Sher-I-Kashmir Institute of Medical Sciences, Srinagar.

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.


Supervisor
Dr. Syed Mudassar
Professor and Head



CSIR - IIIM

सी एस आई आर-भारतीय समवेत औषध संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

केनाल रोड़, जम्मू - 180001

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(Council of Scientific & Industrial Research)

Canal Road, Jammu - Tawi - 180001 (INDIA)

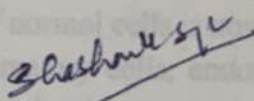
June 04, 2018

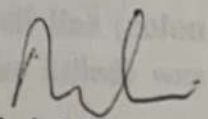
Er. Abdul Rahim
Principal Scientist & Head
PME Division

TO WHOM IT MAY CONCERN

This is to certify that Ms. Sumeet Kaur from **Kashmir University, Srinagar** has successfully completed her training work on "Cancer Cell Culture" in this institute from 10-01-2018 to 04-06-2018.

She is honest, sincere and a hard worker. I wish her all the success in her life.


(Dr. Shashank K. Singh)
Sr. Scientist
Cancer Pharmacology Division
CSIR-IIIM, Jammu


(Abdul Rahim)



**BIOCHEMISTRY AND MOLECULAR BIOTECHNOLOGY LABORATORY
DIVISION OF BASIC SCIENCES AND HUMANITIES
SHERI KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND
TECHNOLOGY, SHALIMAR SRINAGAR, KASHMIR-190025**

CERTIFICATE

This is to certify that the dissertation report entitled "A PRELIMINARY BIOCHEMICAL INVESTIGATION ON PHYTOCHEMICAL COMPOSITION AND ANTI-CANCEROUS POTENTIAL OF *ASPLENIUM CETERACH*" embodies the original research work carried out by **AURNEEB FATIMAH** bearing university Roll no. 16057119007, a student of Master's degree in Clinical Biochemistry, University of Kashmir, Srinagar, under my supervision in Biochemistry and Molecular Biotechnology Laboratory, Division of Basic Sciences and Humanities, SKUAST-K Shalimar-190025. For the partial fulfillment of the requirement for the award of Master's degree in Clinical Biochemistry at University of Kashmir, Srinagar she has worked for her internship (Dissertation work) under my supervision. The work undertaken by her is original and the results presented in this report, in whole have not been submitted elsewhere for any academic degree.


DR. IMTIYAZ MURTAZA

Associate Professor cum Senior Scientist

SKUAST-K

Shalimar-190025

Sher-e-Kashmir
University of Agricultural Sciences and Technology of Kashmir
Division of Veterinary Microbiology & Immunology
Shuhama Campus, Srinagar-190006



Certificate

This is to certify that ASMA, student of Department of Clinical Biochemistry, University of Kashmir, Srinagar has carried out her dissertation project entitled "Detection, virulence gene profile and antibiotic sensitivity of Avian Pathogenic Escherichia coli isolates from broiler chickens" under my guidance and supervision for the partial fulfillment of the degree of Master's in Clinical Biochemistry.

Farhat Pandit
Dr. Farhat Pandit
(Head)
HEAD
DIVISION OF VETERINARY MICROBIOLOGY & IMMUNOLOGY
CVSC & A M (SKUAST)
Shuhama/Ainstong.

Sabia Qureshi
Dr. Sabia Qureshi
(Associate professor)

सी सी एम बी CCMB

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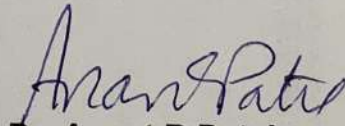


CERTIFICATE FROM THE SUPERVISOR

This is to certify that Ms. Arjumand Zahoor, Reg. No. 63925-W-2013, student of Clinical Biochemistry, University of Kashmir, Srinagar, has carried out the dissertation project entitled "**Understanding the Impact of Ketamine on Neuronal and Astroglial Metabolic Activity**" under my supervision from 8th January 2018 to 23rd June 2018 for the partial fulfilment of the degree of Master's in Science. The work submitted is original to the best of my knowledge.

Date: 23rd June 2018

Place: Hyderabad


Dr. Anant B Patel,

Group Leader and Principal Scientist
NMR Microimaging and Spectroscopy
Centre for Cellular and Molecular Biology
Habsiguda, Hyderabad, India.

अनन्त बहादुर पटेल, प्रिंसिपल वैज्ञानिक
Anant Bahadur Patel, Principal Scientist
सीएसआईआर-कोशिकीय एवं आणविक जीवविज्ञान केन्द्र
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