

DATED 15-12-2023

## CERTIFICATE

This is to confirm that the research project titled *"An Investigation of Antiviral Potential of Phytocompounds Targeting the Spike Protein of Infectious Bronchitis Virus, an Avian Coronavirus"* is an authentic and independent contribution by **SADAF BASHIR**. The undertaken work has not been previously submitted for the attainment of any degree, diploma, fellowship, or similar distinction from this Startup. Under my guidance and supervision, she conducted this research as a partial fulfillment of the requirements for the Master's degree in Biochemistry.

It is important to note that the intellectual property rights of the work carried out by Miss Sadaf Bashir belong to Daskdan Innovations Pvt Ltd. Consequently, no segment of this work shall be disseminated for publication or presented in scientific conferences in any format without prior notification to the Director of Daskdan Innovations Pvt Ltd.

Date: 15/12/2023

NAVEED ANJUM CHIKEN

Director

DIN: 08762378

  
HEAD  
DEPARTMENT OF BIO-CHEMISTRY  
University of Kashmir  
Srinagar-190006



Phone

Email

Address




Centre of Research for Development

University of Kashmir, Hazratbal, Srinagar- 190006

## CERTIFICATE

This is to certify that the student namely **NAZISH MASSUD KANTH**, bearing Enrollment no. **21056119024** of Department of Biochemistry, University of Kashmir, has successfully completed her dissertation work entitled "**Isolation, purification of AMPs from *Eremurus himalaicus* and their screening for antimicrobial activity**" under my guidance and supervision for the partial fulfilment of the degree of Master's in Biochemistry, at **Centre of Research for Development, University of Kashmir**.

  
Supervisor  
**Professor**  
Centre of Research for Development  
University of Kashmir

**PROF. BASHIR AHMAD GANAI**

Professor, CORD

University of Kashmir

Date:

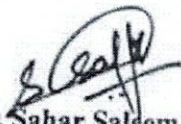
  
HEAD  
DEPARTMENT OF BIO-CHEMISTRY  
University of Kashmir  
Srinagar-190006

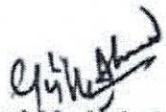



Sher-e-Kashmir  
University of Agricultural Sciences and Technology-Kashmir  
**DIVISION OF ANIMAL BIOTECHNOLOGY**  
Faculty of Veterinary Sciences and Animal Husbandry, Shuhama,  
Srinagar Kashmir, 190012

## CERTIFICATE

This is to certify that dissertation work entitled “Combating AMR in poultry using novel phytocompounds against *Salmonella Gallinarum* and their effect on pathogenesis related gene expression” is an original and independent work of **Asra Zaffar**. The work undertaken by her has not been previously submitted for the award of any degree, diploma, fellowship or other similar distinction from this institution. She has done her work under my guidance and supervision in partial fulfillment for the award of Master of Science in Biochemistry at Department of Biochemistry, University of Kashmir.

  
**Dr. Sahar Saleem**  
DST, Inspire Faculty  
(Supervisor)  
Divisional of Animal Biotechnology  
SKUAST-K

  
**Dr. Syed Mudasir Andrabi**  
Prof and Head  
Divisional of Animal Biotechnology  
SKUAST-K

  
HEAD  
DEPARTMENT OF BIO-CHEMISTRY  
University of Kashmir  
Srinagar-190006



**Watson Crick Centre for Molecular Medicine, IUST  
Awantipora, 192122**

## **CERTIFICATE**

I certify that Mr. Irshad Ahmad Shah has worked on this project titled "***Generation of Mrc1 and Rad9 knockouts to understand the DNA polymerase epsilon mediated checkpoint activation***" under my supervision. All the experiments presented in this thesis were carried out by Irshad Ahmad. He has written this report by herself. The experimental data presented in this report belong to Watson crick Centre for molecular medicine. The work presented in this thesis is part of a long-term project and hence cannot be published or presented in a conference without my knowledge. 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.

**Dr. Rais Ahmad Ganai  
Principal Investigator**

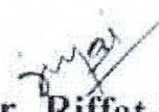
**HEAD  
DEPARTMENT OF BIO-CHEMISTRY  
University of Kashmir  
Srinagar-190006**

**DEPARTMENT OF BOTANY  
UNIVERSITY OF KASHMIR  
HAZRATBAL, SRINAGAR KASHMIR-190006**



**CERTIFICATE**

This is to certify that the student **Iqra Ayoub** bearing **Enrollment No. 21056119014** of **Department of Biochemistry**, University of Kashmir has successfully completed her dissertation work entitled **“putative expression of ATPAP2 gene in *Brassica rapa* to enhance its seed yield”** Under my guidance and supervision for the partial fulfillment of the degree of master’s in Biochemistry in the Department of Botany ,University of Kashmir.

  
**Dr. Riffat John**  
**Supervisor**

  
**HEAD**  
**DEPARTMENT OF BIO-CHEMISTRY**  
**University of Kashmir**  
**Srinagar-190006**

**Date: 15-12-2023**



# ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY

## CERTIFICATE

This is to certify that the project report entitled "**Functional Significance of MERIT40 Gene Expression in Prostate Cancer Progression**" submitted to the Department of Biochemistry, University of Kashmir in partial fulfillment of the requirement for the award of the degree of M.Sc in Biochemistry is an original contribution by **Shakir Nazir** under the guidance and supervision of **Dr. Arsheed A. Ganaie**. No part of this thesis has been submitted for any other degree or diploma to this or any other University.

The assistance and help received during the course of investigation has been duly acknowledged.

*Dr. Arsheed A. Ganaie*  
Assistant Professor / Scientist D  
Islamic University of Science & Technology  
Awantipora-192122

Dr. Arsheed A. Ganaie

Scientist D / Ramalingswami Fellow

Date: 18/12/2023.

Place: Kashmir.

*Shay*  
HEAD  
DEPARTMENT OF BIO-CHEMISTRY  
University of Kashmir  
Srinagar-190006

Date: 18-12-2023



Centre for Interdisciplinary Research & Innovations,  
University of Kashmir  
Hazratbal, Srinagar, Kashmir -190006

## CERTIFICATE

Certified that the project entitled **“Expression and purification of VPS35 for transduction in c.-elegans-establishment of Parkinson’s Disease model.”** Submitted to the University of Kashmir, Hazratbal, Srinagar, for the Award of Masters of Science in Bio-Chemistry, is a record of bona fide work carried out by Waqar Ahmed Khan (21056119036), under my Supervision and guidance. No other student has submitted any part of this project report. It is further certified that help and assistance received during project work have been duly acknowledged.

*#15/12/23*  
**Dr. Raheeqa Mir**  
Principal Investigator  
Centre for Interdisciplinary  
Research and Innovations  
University of Kashmir  
Rajniwami Fellow  
Centre for Interdisciplinary  
Research and Innovations  
University of Kashmir.

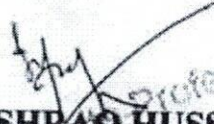
*Sheel*  
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**DIVISION OF VETERINARY BIOCHEMISTRY**  
Faculty of Veterinary Sciences and Animal Husbandry, Shuhama,  
Srinagar Kashmir, 190012

### CERTIFICATE

This is to certify that dissertation work entitled **To investigate the effect of DNJ on NF-kB Pathway in ovarian cancer (PA-1)** is an original and independent work of **RAZIA GULZAR**. The work under taken by her has not been previously submitted for the award of any degree, diploma, fellowship or other similar distinction from this institution. She has done her work under my guidance and supervision in partial fulfillment for the award of Master of Science in Biochemistry at Department of Biochemistry, University of Kashmir.

  
**Dr. ISHRAQ HUSSAIN**  
**(Supervisor)**  
Division of Veterinary Biochemistry  
**SKUAST-K**

  
**HEAD**  
**DEPARTMENT OF BIO-CHEMISTRY**  
University of Kashmir  
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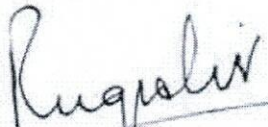


**P.G Programme in Biochemistry**  
**School of Biological Sciences**

**University of Kashmir, Hazratbal Srinagar –190006, J&K**

**CERTIFICATE**

This is to certify that the student namely, **Nairah Mir**, bearing enrolment number **21056119022**, is a bonafide student of Department of Biochemistry and she has successfully completed her project work entitled “**Isolation, Identification, and probiotic characterization of Lactic acid bacteria from buttermilk**” at Microbiology Research Lab, Centre of Research for Development (**CORD**), University of Kashmir Hazratbal, Srinagar.

  
**Supervisor**

Dr. Ruqeyya Nazir  
Sr. Assistant Professor  
Centre of Research for Development (CORD)  
University of Kashmir

  
**HOD**

Prof. Shajrul Amin  
HOD Biochemistry  
Department of Biochemistry  
University of Kashmir  
Srinagar



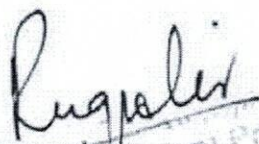
P.G. Programme in Biochemistry,

School of Biological Sciences


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### CERTIFICATE

This is to certify that the student namely **Mahek Manzoor** (Enrolment no.21056119017) is a bonafide student of the Biochemistry Department and she has successfully completed her project work entitled "Isolation, identification and probiotic characterization of Lactic acid bacteria from Gulkand" at P.G. Microbiology Research Laboratory, Centre of Research for Development (CORD), university of Kashmir Hazratbal Srinagar.

  
Supervisor

Dr. Ruqeyya Nazir  
Sr. Assistant Prof.  
Centre of Research for Development  
University of Kashmir, Hazratbal Srinagar

  
HOD

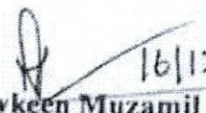
Prof. Shajrul Amin  
Head of Biochemistry Department  
University of Kashmir  
Hazratbal Srinagar  
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University of Kashmir  
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Srinagar Kashmir, 190012

### CERTIFICATE

This is to certify that the Thesis entitled “**Evaluation of Therapeutic Efficacy of Multi-Harbal Extract (*Qurs-i-Ghafith*) on HFD induced TYPE-2 Diabetic RAT Model**” submitted to the Faculty of Science, University of Kashmir in partial fulfillment of the requirements for the degree of Master in Biochemistry at Department of Biochemistry, University of Kashmir, is a faithful record of bonafide research work carried out by **Ms Nadiya Jan** under my supervision.

  
16/12/2023  
Dr. Showkeen Muzamil  
Assistant Professor  
Division Biochemistry  
Assistant Professor  
FVSc & A. Shuhama, SKUAST-K  
Vety. Biochemistry

  
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Faculty of Veterinary Sciences and Animal Husbandry, Shuhama,  
Srinagar Kashmir, 190012

CERTIFICATE

This is to certify that dissertation work entitled "Effect of MORIN on NFkB pathway in lung cancer" is an original and independent work of AFSHANA GULL. The work undertaken by her has not been previously submitted for the award of any degree, diploma, fellowship or other similar distinction from this institution. She has done her work under my guidance and supervision in partial fulfillment for the award of Master of Science in Biochemistry at Department of Biochemistry, University of Kashmir.

Associate Professor  
Dr. SHEIKH BILAL  
Division of Vety. Biochemistry  
F.V.Sc. & A.H.  
(Supervisor)  
Division of Veterinary Biochemistry  
Shuhama  
SKUAST-K

Professor & Head  
Division of Veterinary Biochemistry  
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Dr. FAIZ ULLAH  
Prof and Head  
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Srinagar Kashmir, 190012

### CERTIFICATE

This is to certify that dissertation work entitled "Elucidating the effects of Naringenin on the human lung cancer cell line (NCI-H460) and its role in regulating the NF-kB pathway" is an original and independent work of AFSANA JABEEN. The work undertaken by her has not been previously submitted for the award of any degree, diploma, fellowship or other similar distinction from this institution. She has done her work under my guidance and supervision in partial fulfillment for the award of Master of Science in Biochemistry at Department of Biochemistry, University of Kashmir.

Associate Professor  
Dr. SHEIKH BILAL  
Division of Veterinary Biochemistry  
(Supervisor)  
F.V.Sc. & A.H.  
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19/12/2023  
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