



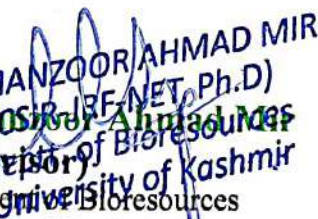
**DEPARTMENT OF BIORESOURCES**  
**University of Kashmir**  
**HAZRATBAL, SRINAGAR 190006, J&K (INDIA)**


No: F(MS)DIS/B-16)BRBS/KU/18

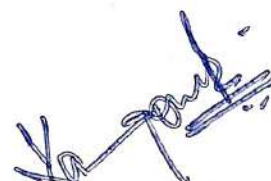
Dated: 20-10-2018


## *Certificate*

This is to certify that the project entitled “**Determination of vancomycin in pharmaceutical formation available in local market using HPLC**” is the work carried out by **Snober Ali, Aqiba Jahan and Daurdana Banoo** a regular Masters (M.Sc.) students of Department of Bioresources, School of Biological science, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department Bioresources, University of Kashmir. The candidates have fulfilled all the requirements and formalities as required under the status of the University for the submission of project work. The work is genuine to the best of our knowledge.

  
**Dr. MANZOOR AHMAD MIR**  
**Dr. Mansoor Ali Mir**  
(Supervisor)  
Department of Bioresources  
University of Kashmir, Srinagar

  
**Prof. (Dr) Samina Farhat**  
(Head)  
Department of Pharmacology  
Govt. Medical College Srinagar

  
**Dr. Mohd Younis Rather**  
(Co-supervisor)  
Department of Pharmacology  
Govt. Medical College Srinagar

  
**Prof. Inayatullah Tahir**  
(Coordinator)  
Department of Bioresources  
University of Kashmir



**DEPARTMENT OF BIORESOURCES**  
**School of Biological Sciences**  
**UNIVERSITY OF KASHMIR, SRINAGAR-190006**  
**NAAC Accredited Grade A+ University**




**Dr Manzoor Ahmad Mir**  
(Coordinator/Head)

No.: MSBR - PW - 2018 - B / 08 / 21  
Dated: 30-03-21

**CERTIFICATE**

This is to certify that the project entitled “**Bioinformatic analysis showing prognostic significance of TOP2A in Breast Cancer**” is the work carried out by **PZD Farhana Anjum**, a regular Masters (M.Sc.) student of Department of Bioresources, University, Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
**Dr. Manzoor Ahmad Mir**  
Supervisor  
Department of Bioresources  
University of Kashmir, Srinagar

**Dr. MANZOOR AHMAD MIR**  
(CSIR-JRF-NET, Ph.D)  
Deptt. of Bioresources  
University of Kashmir

  
**Dr. Manzoor Ahmad Mir**  
Coordinator/Head  
Department of Bioresources  
University of Kashmir, Srinagar

**Dr. MANZOOR AHMAD MIR**  
Co-ordinator/Head  
Deptt. of Bioresources  
University of Kashmir





# Department of Bioresources

*Faculty of Biological Sciences*

UNIVERSITY OF KASHMIR

HAZARATBAL,  
SRINAGAR 190006, J&K

No: MSBR-Pw-2018-B/11/21

Date: 30/03/2021

## *Certificate*

This is to certify that the project entitled "Elucidation of prognostic and functional role of BIRC5 in breast cancer using Bioinformatics analysis" is the work carried out by **Shariqa Jan**, a regular Masters (M.Sc.) student of Department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
Dr. Manzoor Ahmad Mir

(Supervisor)

Dr. Manzoor Ahmad Mir  
M.Sc. CSIR-JRF-NET (Ph.D)  
Sr. ASSISTANT PROFESSOR  
Department of Bioresources  
University of Kashmir

  
Head/Cordinator  
Department of Bioresource  
School of Biological Science  
University of Kashmir





# Department of Bioresources

Faculty of Biological Sciences

UNIVERSITY OF KASHMIR

HAZARATBAL,  
SRINAGAR 190006, J&K

No: MSBR-Prv-2018-B/10/21

Date: 30/03/2021

## Certificate

This is to certify that the project entitled "Validation of CDK1 expression and its prognostic significance in Breast Cancer using integrated bioinformatics analysis" is the work carried out by Shaziashafi, a regular Masters (M.Sc.) student of Department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

**Dr. Manzoor Ahmad Mir**  
(Supervisor)

**Dr. Manzoor Ahmad Mir**  
M.Sc, CSIR-UGC NET (PI) 2011  
Sr. ASSISTANT PROFESSOR  
Department of Bioresources  
University of Kashmir

**Head/Cordinator**  
Department of Bioresources  
School of Biological Sciences  
University of Kashmir



DEPARTMENT OF BIORESOURCES

School of Biological Sciences

UNIVERSITY OF KASHMIR, SRINAGAR-190006

NAAC Accredited Grade A<sup>+</sup> University



No.: MSBR-PW-2019-B/03/21

Date: 30-11-2021

**Certificate**

This is to certify that the project entitled “Fatty Acid Metabolism In Breast Cancer:A Comprehensive In-Silico Study” is the work carried out by Aanisa Makhdoomi, a regular Masters (M.Sc.) Student of Department of Bioresources, University of Kashmir. This work has been carried under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the submission of project work.

Supervisor

Dr. Manzoor Ahmad Mir

Department of Bioresources

Dr. MANZOOR AHMAD MIR  
(CSIR-JRF-NET, Ph.D)  
Deptt. of Bioresources  
University of Kashmir

Coordinator

Dr. Manzoor Ahmad Mir

Department of Bioresources

Dr. MANZOOR AHMAD MIR  
Co-ordinator/Head  
Deptt. of Bioresources  
University of Kashmir





# Department of Bioresources

## School of Biological Sciences

UNIVERSITY OF KASHMIR, SRINAGAR-190006

NAAC Accredited Grade A+ University



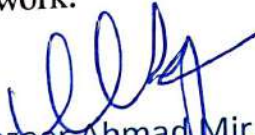
Dr Manzoor Ahmad Mir  
(Coordinator/Head)


No: MSBR-PW-2019B/18/21

Dated: 30/11/2021

### CERTIFICATE

This is to certify that the project entitled “Comprehensive Analysis of MAP Kinase signaling pathway in Breast Cancer: An integrated in silico analysis” is the work carried out by HEENA ZAHRA, a regular Masters student of department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
Dr. Manzoor Ahmad Mir  
Supervision/ Head  
Department of Bioresources  
University of Kashmir  
Ph.D)  
Deptt. of Bioresources  
University of Kashmir

  
Dr. Manzoor Ahmad Mir  
Coordinator  
Department of Bioresources  
University of Kashmir  
Co-ordinator/Head  
Deptt. of Bioresources  
University of Kashmir



## Department of Bioresources

Faculty of Biological Sciences

UNIVERSITY OF KASHMIR

HAZARATBAL, SRINAGAR 190006, J&K

No: MSBR-PW-2020-B/01/23

Date: 25-03-2023

### *Certificate*

This is to certify that the project entitled “**Expression pattern and therapeutic implications of CDK2 in Breast Cancer: An in-silico and in-vitro analysis**” is the work carried out by **Iqra Noor**, a regular Masters (M.Sc.) student of Department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
**Dr. Manzoor Ahmad Mir**  
(Supervisor)  
Department of Bioresources  
University of Kashmir, Srinagar  
**DR. MANZOOR AHMAD MIR**  
(CSIR-IRF-NET, Ph.D)  
Deptt. of Bioresources  
University of Kashmir

  
**Dr. Manzoor Ahmad Mir**  
(Coordinator)  
Department of Bioresources  
University of Kashmir, Srinagar  
**DR. MANZOOR AHMAD MIR**  
(Coordinator)  
Department of Bioresources  
University of Kashmir, Srinagar





**Department of Bio-resources**  
**Faculty of Biological Sciences**  
**UNIVERSITY OF KASHMIR**  
**HAZARATBAL,**  
**SRINAGAR 190006, J&K**

No: MSBR- Pw- 2020-B/06/23

Date: 25-03-2023

*Certificate*

This is to certify that the project entitled “**Cisplatin targets XIAP and inhibits tumour cell proliferation in breast cancer cells: An In-vitro and In-silico study**” is the work carried out by **Masarat Bashir**, a regular Masters (M.Sc.) student of the Department of Bio-resources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bio-resources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

*Dr. Manzoor Ahmad Mir*

*(Supervisor)*

*Dr. MANZOOR AHMAD MIR*  
*(CSIR-JRF, NET, Ph.D)*  
*Dept. of Bioresources*  
*University of Kashmir, Srinagar*

*Dr. Manzoor Ahmad Mir*

*(Coordinator)*

*Dr. MANZOOR AHMAD MIR*  
*(Coordinator)*  
*Dept. of Bioresources*  
*University of Kashmir, Srinagar*





# Department of Bioresources

Faculty of Biological Sciences

UNIVERSITY OF KASHMIR

HAZARATBAL, SRINAGAR 190006, J&K

No: MSBR-PW-2020-B/15/23

Date: 25-03-2023

## Certificate

This is to certify that the project entitled “**TOP2A dysregulation in breast cancer; An integrated bioinformatic and In-vitro Analysis**” is the work carried out by **Mina Rashid** a regular Masters (M.Sc.) student of Department of Bio resources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bio resources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.


  
Dr. Manzoor Ahmad Mir  
(Supervisor)  
Department of Bio resources  
University of Kashmir  
**Dr. MANZOO AHMAD MIR**  
**(CSIR-JRF-NET, PAB D)**  
**Deptt. of Bioresources**  
**University of Kashmir**


  
Dr. Manzoor Ahmad Mir  
(Coordinator)  
Department of Bio resources  
University of Kashmir  
**Coordinator**  
**Department of Bioresources**  
**University of Kashmir**  
**Srinagar**

**DEPARTMENT OF BIORESOURCES**  
**University of Kashmir-Hazratbal**  
**Srinagar, J&K - 190006**

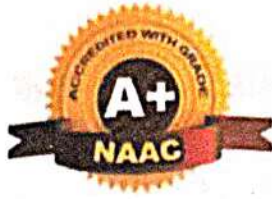
**CERTIFICATE**

This is to certify that the project entitled "Expression patterns and therapeutic implications of CDK4 in Breast Cancer: An In-vitro and In-silico Analysis" is the work carried out by Mr. / Ms. Sumaiya Nisar, a regular Masters (M.Sc.) student of Department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
(Signature of Project supervisor)  
Dr. Manzoor Ahmad Mir  
Supervisor  
Date: 25/03/2023  
No. MSBR-Dept. of Bioresources  
University of Kashmir  
13/18/23

  
Dr. Manzoor Ahmad Mir  
Coordinator  
Department of Bioresources  
University of Kashmir





**Department of Bioresources  
School of Biological Sciences  
UNIVERSITY OF KASHMIR  
HAZARATBAL, SRINAGAR 190006, J&K**

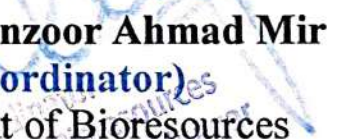
No: MSBR-PW-2020-B/19/23

Date: 25-03-2023

## *Certificate*

This is to certify that the project entitled “**Identification and Analysis of Dysregulated PIK3CA Gene in Breast Cancer: An Integrated Bioinformatic and Invitro Analysis**” is the work carried out by **AANISA ISHRAT**, a regular Masters (M.Sc.) student of Department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
**Dr. Manzoor Ahmad Mir**  
(Supervisor)  
Department of Bioresources  
University of Kashmir, Srinagar  
Deptt. of Bioresources  
University of Kashmir

  
**Dr. Manzoor Ahmad Mir**  
(Cordinator)  
Department of Bioresources  
University of Kashmir, Srinagar



# Department of Bioresources

Faculty of Biological Sciences

UNIVERSITY OF KASHMIR

HAZARATBAL, SRINAGAR 190006, J&K

No: MSBR-Pw-2021-8/06/23

Date: 26/12/2023

## Certificate

This is to certify that the project entitled “Validation of MAPT Expression and its Functional Role in Breast Cancer using In-silico and In-vitro Analysis” is the work carried out by **Asma jan**, a regular Masters (M.Sc.) student of Department of Bio-resources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bio-resources, University of Kashmir. Miss Asma jan has demonstrated exemplary dedication and scholarly prowess in researching and presenting this project. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

*Dr. Manzoor Ahmad Mir*  
(Supervisor)

Department of Bioresources  
University of Kashmir, Srinagar

**Dr. MANZOOR AHMAD MIR**  
CSIR-JRF-NET, Ph.D)  
Dept. of Bioresources  
University of Kashmir

*Dr. Manzoor Ahmad Mir*  
(Coordinator)

Department of Bioresources  
University of Kashmir, Srinagar

**Head/Cordinator**  
Department of Bioresources  
School of Biological Sciences  
University of Kashmir





Department of Bio-resources  
Faculty of Biological Sciences  
UNIVERSITY OF KASHMIR

HAZARATBAL,  
SRINAGAR 190006, J&K

No: MSBRPW-2021-B/15/23

Date: 26/12/2023

Certificate

This is to certify that the project entitled “**Expression Pattern and Functional Role of ATP5A1 in Breast Cancer using *In-silico* and *In-vitro* Analysis**” is the work carried out by **Tabish javeed**, a regular Masters (M.Sc.) student of Department of Bio-resources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bio-resources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

Dr. Manzoor Ahmad Mir

(Supervisor)

Department of Bio-resources

University of Kashmir, Srinagar

Dr. MANZOOR AHMAD MIR  
(CSIR-JRF-NET, Ph.D)  
Deptt. of Bioresources  
University of Kashmir

Dr. Manzoor Ahmad Mir

(Coordinator)

Department of Bio-resources

University of Kashmir, Srinagar

Head/Cordinator  
Department of Bioresources  
School of Biological Sciences  
University of Kashmir



Department of Bio-resources  
Faculty of Biological Sciences  
UNIVERSITY OF KASHMIR

HAZARATBAL,  
SRINAGAR 190006, J&K

No: MSBR-PW-2021-B/17/23

Date: 26/12/2023

Certificate

This is to certify that the project entitled “**Validation of CDK2 expression and its functional role in Breast Cancer using In-silico and In-vitro Analysis**” is the work carried out by **Fatima Manhas**, a regular Masters (M.Sc.) student of Department of Bio-resources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bio-resources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

Dr. Manzoor Ahmad Mir  
(Supervisor)

Department of Bio-resources  
University of Kashmir, Srinagar

Dr. MANZOOR AHMAD MIR  
(CSIR-JRF-NET, Ph.D)  
Deptt. of Bioresources  
University of Kashmir

Dr. Manzoor Ahmad Mir  
(Coordinator)

Department of Bio-resources  
University of Kashmir, Srinagar

Head/Cordinator  
Department of Bioresources  
School of Biological Sciences  
University of Kashmir





Department of Bio-resources  
Faculty of Biological Sciences  
UNIVERSITY OF KASHMIR


HAZARATBAL,  
SRINAGAR 190006, J&K

No: MSBR-PW-2021-B/23/23

Date: 26/12/2023

Certificate

This is to certify that the project entitled “Clinicopathological Significance and Expression Pattern of CDK1 in Breast Cancer Using *In-Silico* and *In-Vitro* Analysis” is the work carried out by **Nasreen Rashid**, a regular Masters (M.Sc.) student of Department of Bio-resources, University of Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bio-resources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
Dr. Manzoor Ahmad Mir  
(Supervisor)

Department of Bio-resources  
University of Kashmir, Srinagar

Dr. MANZOOR AHMAD MIR  
(CSIR JRF-NET, PhD)  
Dr. MANZOOR AHMAD MIR  
(CSIR JRF-NET, PhD)  
Deptt. of Bioresources  
University of Kashmir

  
Dr. Manzoor Ahmad Mir  
(Coordinator)

Department of Bio-resources  
University of Kashmir, Srinagar

Head/Coordinator  
Department of Bioresources  
School of Biological Sciences  
University of Kashmir



**DEPARTMENT OF BIORESOURCES**  
**School of Biological Sciences**  
**UNIVERSITY OF KASHMIR, SRINAGAR-190006**  
**NAAC Accredited Grade A+ University**



**Dr Manzoor Ahmad Mir**  
(Coordinator/Head)

*No.:*

*Dated:*

**CERTIFICATE**

This is to certify that the project entitled “Exploring SALL4 as a significant prognostic marker in Breast Cancer and its association with Progression Pathways involved in cancer genesis” is the work carried out by **Sania Bashir**, a regular Masters (M.Sc.) student of Department of Bioresources, University, Kashmir. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bioresources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

**Dr. Manzoor Ahmad Mir**  
(Supervisor)

Department of Bioresources  
University of Kashmir, Srinagar

**Dr. MANZOOR AHMAD MIR**  
(CSIR-JRF-NET, Ph.D)  
Deptt. of Bioresources  
University of Kashmir

**Dr. Manzoor Ahmad Mir**  
(Coordinator)

Department of Bioresources  
University of Kashmir, Srinagar

Coordinator  
Department of Bioresources  
University of Kashmir, Srinagar





*Department of Bioresources*  
**University of Kashmir,**  
**Srinagar - 190006**  
(NAAC ACCREDITED GRADE 'A')

No.: MSBR-PW-2018 B/02-13-14  
Dated: 30/03/2021

*Certificate*

This is to certify that M.Sc. dissertation entitled "**Role of Gene Flow in Population Structure: A Review**" is the original work carried out by Ms. **Nasreena Munawar, Ms. Nusrat Jan and Ms. Rubeena Nazir** as a whole time M.Sc. Dissertation in Bioresources, University of Kashmir, Srinagar. This work has been carried out under the supervision of **Dr. Reiaz-ul-Rehman**, Sr. Assistant Professor, Department of Bioresources. This is an original work carried out by the candidates in the Department of Bioresources and it has not been submitted before to any university/institution. **They** have carried out the dissertation work as mentioned in the statutes.

**Dr. Reiaz Ul Rehman**  
(Sr. Assistant Prof.)  
Department of Bioresources  
University of Kashmir, Srinagar

**Dr. Manzoor Ahmad Mir**  
(Co-ordinator)  
Department of Bioresources  
University of Kashmir, Srinagar  
Coordinator  
Department of Bioresource  
University of Kashmir Srinagar



*Department of Bioresources*  
**University of Kashmir,**  
**Srinagar - 190006**  
(NAAC ACCREDITED GRADE 'A'')

No.: (MSBR-PN-08) BRES/KU/21  
Dated: 01-12-21

*Certificate*

This is to certify that M.Sc. dissertation entitled "**Application of Copper Based Nanoparticles In Sustainable Agriculture**" is the work carried out by **Ms. Iqra Bashir** as a whole time M.Sc. Dissertation in Bioresources, University of Kashmir, Srinagar. This is a review based work carried under the supervision of Dr. Reiaz-ul-Rehman, Sr. Assistant Professor, Department of Bioresources. This work is carried out by the candidate in the Department of Bioresources and it has not been submitted before to any university/institution.

**Dr. Reiaz Ul Rehman**  
**(Sr. Assistant Prof.)**  
**Department of Bioresources**  
**University of Kashmir, Srinagar**

**Dr. Manzoor Ahmad Mir**  
**(Co-ordinator)**  
**Department of Bioresources**  
**University of Kashmir, Srinagar**  
**Coordinator**  
**Department of Bioresource**  
**University of Kashmir Srinage**



# *Department of Bioresources*

**University of Kashmir,**

**Srinagar -190006**

(NAAC ACCREDITED GRADE 'A-')


No.: (MSBR-PW-05) BRES/KU  
Dated: 01-12-2021

## *Certificate*

This is to certify that M.Sc. dissertation entitled "Application of Carbon based Nano-particles in Agriculture and in Environmental Remediation " is the work carried out by Ms. Tabasum Mushtaq as a whole time M.Sc. Dissertation in Bioresources, University of Kashmir, Srinagar. This work has been carried out under the supervision of Dr. Reiaz-ul-Rehman, Sr. Assistant Professor, Department of Bioresources. This is an original work carried out by the candidates in the Department of Bioresources and it has not been submitted before to any university/institution. They have carried out the dissertation work as mentioned in the statutes.



Dr. Reiaz Ul Rehman  
(Sr. Assistant Prof.)  
Department of Bioresources  
University of Kashmir, Srinagar



Dr. Manzoor Ahmad Mir  
(Co-ordinator )  
Department of Bioresources  
University of Kashmir, Srinagar  
Co-ordinator  
Department of Bioresource  
University of Kashmir Srinagar



DEPARTMENT OF BIORESOURCES  
University of Kashmir  
HAZRATBAL SRINAGAR

(NAAC ACCREDITED GRADE 'A<sup>++</sup>)

No: F(MSBR-DN(15)BRES/KU/21  
Dated: 10-12-2021

## Certificate

This is to certify that the project work entitled "**Overview Of Eco-friendly Nano Particles In Promoting Sustainable Agriculture**" is the review carried out by **Mutaib Siddiqui** bearing Enrollment No. **19060119015** (Batch 2019), Department of Bioresources, University of Kashmir, Srinagar. The project is submitted in the partial fulfilment of the requirements for the award of M.Sc degree in Bioresources. This work has been carried out under the supervision of **Dr. Reiaz-ul-Rehman**, Sr Assistant Professor, Department of Bioresources. This is an original work carried out by the candidate in the Department of Bioresources and it has not been submitted before to any university/institution.

  
**Dr. Reiaz-ul-Rehman**  
(Supervisor)  
Department of Bioresources  
University of Kashmir,  
Srinagar.

  
**Dr. Manzoor Ahmad Mir**  
(Coordinator Bioresources)  
Department of Bioresources  
University of Kashmir,  
Srinagar,  
Coordinator  
Department of Bioresource  
University of Kashmir Srinagar





Department of Bioresources

University of Kashmir,

Srinagar -190006

(NAAC ACCREDITED GRADE 'A')

No.: (MSBR-PW-08) BRES/K/21  
Dated: 01/12/21

## Certificate

This is to certify that M.Sc. dissertation entitled “Application of Gold Nanoparticles” is the review work carried out by **Ms. Asma Buch** as a whole time M.Sc. Dissertation in Bioresources, University of Kashmir, Srinagar. This work has been carried out under the supervision of Dr. Reiaz-ul-Rehman, Sr. Assistant Professor, Department of Bioresources. This work carried out by the candidate in the Department of Bioresources and it has not been submitted before to any university/institution.

Dr. Reiaz Ul Rehman  
(Sr. Assistant Prof.)  
Department of Bioresources  
University of Kashmir, Srinagar

Dr. Manzoor Ahmad Mir  
(Co-ordinator )  
Department of Bioresources  
University of Kashmir, Srinagar

Dr. MANZOOR AHMAD MIR  
Co-ordinator/Head  
Deptt. of Bioresources  
University of Kashmir



*Department of Bioresources*  
**University of Kashmir,**  
**Srinagar -190006**  
(NAAC ACCREDITED GRADE 'A')

No.: *MSBR-DW-21 (9/E/9/11)/23*  
Dated: *26-12-2023*

*Certificate*

This is to certify that M.Sc. dissertation entitled "**Evaluation of Morphophysiological and Biochemical Toxicity of Heavy Metal Stress in *Vigna Radiata L.***" is the work carried out by **Ms. Maryam Khazir, Ms. Mariya Ashraf, Ms. Gousia Mumtaz and Ms. Ifra Jan** as a whole time M.Sc. Dissertation in Bioresources, University of Kashmir, Srinagar. This work has been carried out under the supervision of **Dr. Reiaz-ul-Rehman, Sr. Assistant Professor, Department of Bioresources.** This work has been carried out by the candidates in the Department of Bioresources and it has not been submitted before to any university/institution.

  
**Dr. Reiaz Ul Rehman**  
**(Sr. Assistant Prof.)**  
**Department of Bioresources**  
**University of Kashmir, Srinagar**

  
**Dr. Manzoor Ahmad Mir**  
**(Co-ordinator)**  
**Department of Bioresources**  
**University of Kashmir, Srinagar**

*Handwritten mark or signature in the bottom right corner.*





## Department of Bioresources

School of Biological Sciences

University of Kashmir, Srinagar -190006

No.: F (Proj - M.Sc) Bibres/ku/B17  
Dated: 21-11-2019.

### Certificate

This is to certify that the dissertation titled “**GENERATION OF REACTIVE OXYGEN SPECIES (ROS) AND ITS SCAVANGING IN LIVING SYSTEMS**” submitted by **Mehrajul Nisa, Shikha Pandita, Shaista Manzoor, Farhat Sharief** to the University of Kashmir, for the degree of Master of Science is carried out by them under my supervision and guidance at University of Kashmir. 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 Peer Abdul Haseeb Shah**  
DST INSPIRE faculty  
Department of Bioresources  
University of Kashmir  
(Supervisor)

Principal Investigator  
Deptt. of Bioresources  
University of Kashmir

**Dr Manzoor Ahmad Mir**  
(Coordinator)  
Department of Bioresources  
University of Kashmir Srinagar



## Department of Bio resources

University of Kashmir


(NAAC accreditation grade A<sup>+</sup>)


No: MSBR-DW-2018B/03,06,07/21

Dated: 30/3/2021

### Certificate

This is to certify that the project entitled " **Candida and pathogenesis in Human Hosts : A systematic Analysis** "is the work carried out by Saleeqa Yaseen ,Ulfat Jan and Muhammad Usman, regular Masters (M.Sc.) students of Department of Bio resources, University, Kashmir Batch 2018. This work has been carried out under my supervision and is being submitted for the first time to the Department of Bio resources, University of Kashmir. The candidate has fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
Dr. Peer Abdul Haseeb Shah  
(Supervisor)  
Principal Investigator  
Department of Bio resources  
University of Kashmir, Srinagar

  
Dr. Mansoor Ahmad Mir  
(Co Supervisor Cum Coordinator)  
Department of Bio resources  
University of Kashmir, Srinagar





## Department of Bioresources.


University of Kashmir,  
Srinagar -190006


(NAAC ACCREDITED GRADE 'A')

No. F (MSBR-DN) (1/19) BRES/19/2  
Dated: 06-12-2021

### Certificate

This is to certify that M.Sc. dissertation entitled “**Sequence analysis of *TAC1* binding element in drug resistance genes across different *Candida* species**” is the work carried out by **Ms. Summya Habib, Ms. Afreen Mushtaq, and Ms. Seerat Rayees** as a whole time M.Sc. Dissertation in Bioresources, University of Kashmir, Srinagar. This work has been carried out under the supervision of **Dr. Peer Abdul Haseeb Shah**, DST INSPIRE Faculty, Department of Bioresources, University of Kashmir. This is an original work carried out by the candidates in the Department of Bioresources and it has not been submitted before to any university/ institution. They have carried out the dissertation work as mentioned in the statutes.

  
**Dr. Peer Abdul Haseeb Shah**  
(DST INSPIRE Faculty)  
Department of Bioresources  
University of Kashmir, Srinagar

  
**Dr. Manzoor Ahmad Mir**  
(Co-ordinator)  
Department of Bioresources  
University of Kashmir, Srinagar





**Department of Bioresources**  
**UNIVERSITY OF KASHMIR**  
**HAZRATBAL, SRINAGAR - 190006**

No: EL project. IV - BRES.k  
Date: 27/12/2023

**Certificate**

This is to certify that the project entitled, " **Exploring the combinatorial activity of plant extracts/oils and azole drugs against the emerging human fungal pathogen *Candida auris***" is the work carried out by **Humaira Tabasum, Suhail Ahmad Najar, Ifshana Mohi ud din and Ifra Bilal**, regular M.Sc. students, Department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted in partial fulfillment for the requirements for the award of Master's Degree in Bioresources, University of Kashmir. The candidates have fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

  
**Dr. Peer-Abdul-Haseeb Shah**  
(Supervisor)  
Principal Investigator  
Department of Bioresources  
University of Kashmir Srinagar  
27/12/23

  
**Dr. Manzoor Ahmad Mir**  
(Coordinator)  
Department of Bioresources  
University of Kashmir Srinagar  
27/12/23





**Department of Bioresources**  
**SCHOOL OF BIOLOGICAL SCIENCE**  
**UNIVERSITY OF KASHMIR**  
**HAZRATBAL, SRINAGAR - 190006**

No: MSBR-PW-2020-B/10,12,14,16/23

Date: 25/03/23

**Certificate**

This is to certify that the project entitled, "Evaluation of the antimicrobial activity of plant extracts and animal proteins against microbial pathogens" is the work carried out by Aamir Nazir Malik, Arizoo Maqbool, Sayeema Jan, Iqra Farooq regular M.Sc students of Department of Bioresources, University of Kashmir. This work has been carried out under my supervision and is being submitted in partial fulfillment for the requirements for the award of Master's Degree in Bioresources, University of Kashmir. The candidates have fulfilled all the requirements and formalities as required under the statutes of the University for the Submission of project work.

Supervisor

**Dr. Peer Abdul Haseeb Shah**

Department of Bioresources  
University of Kashmir

*Dr. Peer Abdul Haseeb Shah*  
Principal Investigator  
Deptt. of Bioresources  
University of Kashmir

Coordinator

**Dr. Manzoor Ahmad Mir**

Department of Bioresources  
University of Kashmir

**Coordinator**  
**Department of Bioresources**  
**University of Kashmir Srinagar**

**DEPARTMENT OF BIORESOURCES  
UNIVERSITY OF KASHMIR  
Hazratbal, Srinagar 190-006, J&K**


No: MSBR-PW-2017/

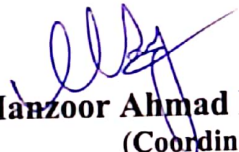
Dated: 04/09/2019



**CERTIFICATE**

This is to certify that the project work entitled "**Biochemical Changes During Flower Senescence In *Hemerocallis fulva* L. (Royal Crown)**" submitted by **Irfat Altaf Wani, Ufaq Hilal & Sakeena Bano**, to the University of Kashmir, for the degree of Masters of Science is carried out by them under my supervision and guidance at University of Kashmir.

  
**Sheikh Tajamul Islam**  
(Supervisor)  
Department of Bio-resources  
University of Kashmir

  
**Dr. Manzoor Ahmad Mir**  
(Coordinator)  
Department of Bio-resources  
University of Kashmir





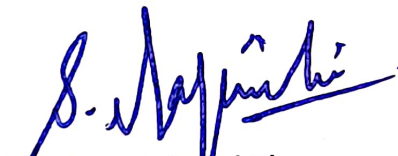
## DEPARTMENT OF BIORESOURCES

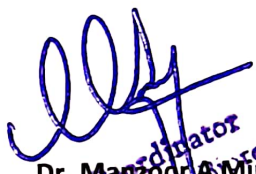
School of Biological sciences  
University of Kashmir, Srinagar

No: MSBR-PW-2018-B/16,19,20/2  
Dated: 30/03/2021

### *Certificate*

This is to certify that the project work entitled “**Plant Secondary Metabolites: Classification and Role in Defence Against Herbivores and Pathogens- A review**” was work carried out by **Mehvish Nabi, Suhail Ahmad Tantray and Neelofar Nazir** students of M.Sc Bioresources, Department of Bioresources, University of Kashmir, Srinagar, under my supervision. The project is submitted in the partial fulfillment of the requirements for the award of M.Sc degree in Bioresources.

  
Mr. Sheikh Tajamul Islam  
Supervisor  
Department of Bioresources  
Bioresources  
University of Kashmir, Srinagar  
*Assistant Professor  
Department of Bioresources  
University of Kashmir*

  
Dr. Manzoor Mir  
Coordinator  
Department of  
University of Kashmir, Srinagar  
*Department of Bioresource  
University of Kashmir Srinagar*

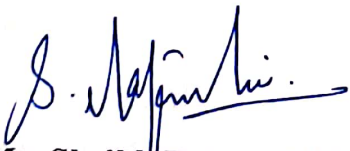



**DEPARTMENT OF BIORESOURCES**  
**School of Biological Sciences**  
**University of Kashmir Srinagar, J&K-190006**

No. *F(MSBR-PW(19/20)BRES/KU/21* Dated: *08-12-2021*

## *Certificate*

This is to certify that the project entitled "**Variation in essential oil yield in *Artemisia annua* L. growing in wild: A case study from District Pulwama of J&K**" is the work carried out by **Aashiq Hussain Zargar (19060119019)** and **Humaira Indrabi (19060119020)** students of M.Sc Bioresources, Batch 2019, Department of Bioresources, University of Kashmir, Srinagar under my supervision. The project is submitted in the partial fulfillment of the requirements for the award of M.Sc degree in Bioresources.

  
**Mr. Sheikh Tajamul Islam**  
(Supervisor)  
Department of Bioresources  
University of Kashmir,  
Srinagar

  
**Dr. Manzoor Ahmad Mir**  
(Coordinator Bioresources)  
Department of Bioresources  
University of Kashmir,  
Srinagar