

Department of Biotechnology
List of students and title of dissetrtation
(Semester IV, MBT401)

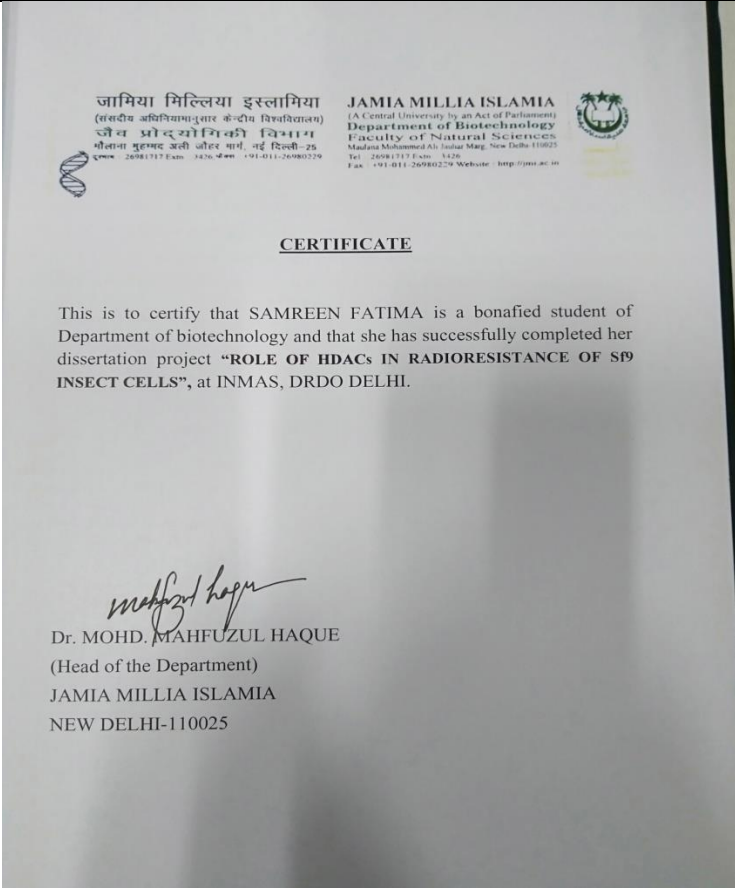
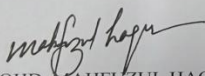
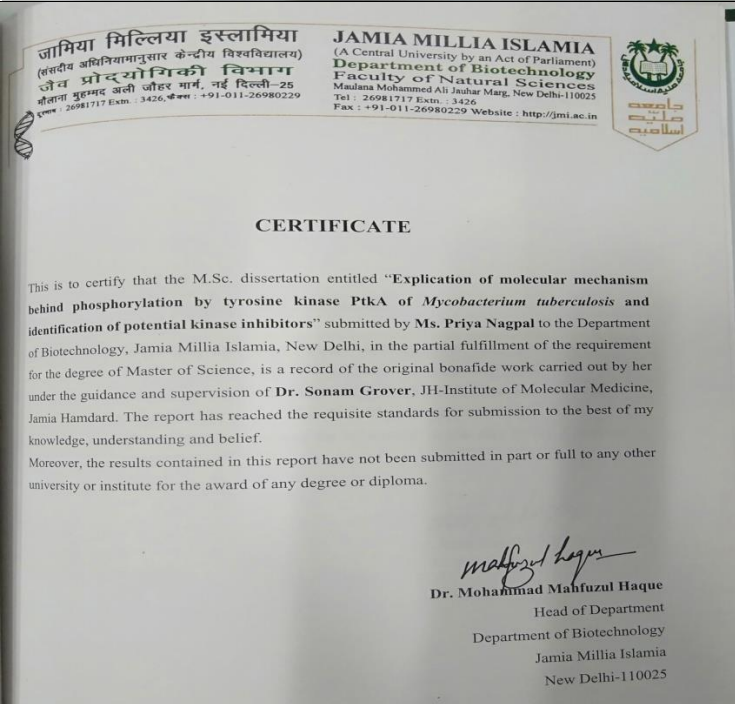
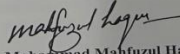
2019			
S. No.	Name	Title	Place of Dissertation
1	Samreen Fatima	Role of HDACs in radio resistance of Sf9 Insect cells	INMAS, DRDO
2	Priya Nagpal	Explication of molecular mechanism behind phosphorylation by Tryrosine kinase PtkA of mycobacterium tuberculosis and identification of potential kinase inhibitors	Jamia Hamdard
3	Shumaila Siddiqui	Transcriptomic analysis of 2000 breast tumours and in vitro metabolic assays reveal a role of TP53 oncogenotype in defining metabolic state	Jamia Millia Islamia
4	Belal Ahmad	Effect of CD40 deficiency on IgM responses to a T-independent antigen	NII, New Delhi
5	Khalid Rashid	Investigating the effect of hypobaric hypoxia on cysteine and glutamate transporters in rat brain	DIPAS
6	Priyanka Bhardwaj	Interaction of therapeutic antibiotics and antimicrobial peptides with bacteria	CCMB, Hyderabad
7	Rosy Khatoon	Expression and purification of sphingosine kinase 1 and binding study with potential inhibitor capsaicin	Jamia Millia Islamia
8	Monu Pandey	To study and evaluate the immunodeficiency in athymic nude mice	INMAS, DRDO
9	Bushra Khan	Isolation and screening of L-asparaginase producing bacteria from different soil sample	CSIR-Indian Institute of integrative medicine, Jammu
10	Ibtisam Jamaluddin	Cloning, over expression and phenotypic characterization of Zebra fish H2A.Z.2 mutants	CSIR-IGIB, Delhi
11	Ishfaq Ahmed Mir	Study of genetic expression of endoplasmic reticulum stress markers and downstream chaperones GRP78 in human obesity	AIIMS, Delhi
12	Khatera Haniss	Heat induced aggregation of alpha-LA and its prevention by trehalose and its monomers	Jamia Millia Islamia
13	Mahepara Siddiqui	Proteomics analysis of Gymnema sylvestre leaf under drought and heat stress	Jamia Millia Islamia
14	Sumbul Khan	Expression and purification of optic atrophy 3 protein of plasmodium falciparum in E.coli	ICGEB, Delhi
15	Areeba Haroon	Counteraction of aggregation in alpha-lactalbumin by monomeric sugar	Jamia Millia Islamia
16	Payal Mittal	Purification and biochemical analysis of plasmodium falciparum glutaminyl	ICGEB, Delhi

		tRNA synthetase	
17	Shahin Anjum	Isolation and quantification of dengue virus from different cell lines	RCB, Faridbad
18	Abdur Rahman Manzer	Investigation of interaction of CKAMP family proteins with PSD-95 using M2H	NCCS, Pune
19	Neha Khan	Cloning, expression, purification and biophysical characterization of MurC from salmonella Enterica serovar typhi	AIIMS, Delhi
20	Belal Ahmad	Analysis of plasma cells generated in the presence and absence of CD40 signalling	NII, New Delhi
21	Shubham Chaudhary	Database development on the plant microbial interaction (PMI-base)	NIPGR, New Delhi
22	Khilat Rehana	A comparative analysis of nano curcumin and quercetin in combating high altitude cerebral edema in rat model	DIPAS, DRDO
23	Reetika Tandon	Evaluation of Borate as Anti-inflammatory and anti-cancer agent	Jamia Millia Islamia
24	Fatima Ali	Virtual high-throughput screening of natural compounds in search of potential inhibitors for carbonic anhydrase 2	Jamia Millia Islamia
25	Shiza Siddiqui	Identification of bioactive natural products as potential inhibitors of serum and glucocorticoid regulated kinase 1: A virtual screening and simulation study	Jamia Millia Islamia
26	Simran Sharma	Study of effects of radiation on TLR expression in GI tract of C57BL/6 mice	INMAS, DRDO
27	Umang Berry	Cloning and expression of human PD-L1	THSTI, Faridabad
28	Sana Parveen	Optimizing protein expression and purification of dendritic cell specific ICAM3 grabbing non integrin (CD209)	JNU, Delhi
29	Vidit Gaur	Production and purification of anti-clonotypic antibody for immunological investigations in a TCR transgenic mouse model	NII, New Delhi
30	Diksha	Genetic polymorphism of beta functional gene-GLIS3 in type 2 diabetes mellitus	Jamia Millia Islamia
31	Nida Khalid	Effect of gonadotropin releasing hormone agonist on cell proliferation in glioblastoma cell line, U87MG	ICMR-National institute of Pathology, Delhi

2018			
S. No.	Name	Title	Place of Dissertation
1	Saadia Naseer	Cloning of spidroin genes in chloroplast transformation vector Pvsr326	ICGEB, Delhi
2	Sanchita Jain	Database generation of membrane mechanical proteins and analysis of their cellular properties	CSIR-IGIB, Delhi
3	Shivani Singh	Expression and purification of ATG8 family member protein	CSIR-IGIB, Delhi
4	Yameena Afreen	Expression, purification and biophysical characterization of human FAS-activated Serine/threonine kinase	Jamia Millia Islamia
5	Reena Yadav	Cloning of mammalian IKKE gene deletion 1 segment and the role of IKEE in metastasis of ovarian cancer	ACBR, Delhi
6	Khan Sadia	Arsenate, phosphate interaction : role of sulphur related enzymes and genes in Indian mustard plant	Jamia Millia Islamia
7	Sahiba	The role of silicon in mitigation of arsenic stress in Indian mustard plant	Jamia Millia Islamia
8	Babangida Alhaji Jinjiri	Analysis of GFP-HBx protein expression by fluorescent microscopy and immunoblotting	Jamia Millia Islamia
9	Kainat Mirza	Comparative study of HBV expression markers in HCPG2 cells transfected with HBV expressing plasmids	Jamia Millia Islamia
10	Aruba Khan	Cloning and expression analysis of WRKY transcription factors gene under heavy metal stress in Oryza sativa	Jamia Millia Islamia
11	Saba Parveen	Immunoinformatic approach for designing peptide based vaccines for tuberculosis	Miranada House, DU
12	Shireen S	Deletion constructs of C-terminal domain of clostridium perfringes enterotoxin: cloning, expression and purification	NII, Delhi
13	Vaishnavi Mukkavar	Cloning of LysR-type transcription regulator from Gordonia	IIT Delhi
14	Shahzul Hassan	Phytochemical screening and biological activities of polyherbal plant	Jamia Millia Islamia
15	Rafia Mehboob	To study antimalarial potential of noval carbohydrate fused pyrano[3,2-c]pyranones	JNU, Delhi
16	Prachi Singh	Interaction of PRC2 complex and lncRNA HOTAIR	CSIR-IGIB, Delhi
17	Adiba Parvez	Unravelling the folding pathway of human FAS-activated serine/threonine kinase domain 2	Jamia Millia Islamia
18	Zunaira	Characterization of a misfolded proteins that	CSIR-IGIB,

	Tazkeer Hussain	imparts proteotoxic stress to mitochondrial subcompartments	Delhi
19	Sofia Anjum	Isolation of miRNA from exosomes secreted by Helicobacter pylori infected AGS cells	JNU, Delhi
20	Mohd Gufran	Biophysical characterization of protein after isolation and purification from medicinally important plant Cassia fistula	Jamia Millia Islamia
21	Abhishek	Regeneration and agrobacterium mediated transformation studies of glycine max and screening of vigna radiata transgenic plants	ICGEB, Delhi
22	Mah Alam	Purification of protein from cassia fistula using Ion exchange and gel filtration chromatography and its biophysical characterization	Jamia Millia Islamia
23	MD. Kaisar Imam	Effect of molecular chaperone protein STUB1/CHIP on the stability kinetics of GST	Jamia Millia Islamia
24	Meo Khan	Investigating the role of endogenous hydrogen sulphide in brain during unstimulated state	DIPAS, DRDO
25	Anjum Nisha	Role of hydrogen sulphide in modulating pathologic cell responses to hypobaric hypoxia in heart	DIPAS, DRDO
26	Anisha Handoo	Purification and biochemical analysis of Plasmodium Falciparum Cysteiny tRNA synthetase	ICGEB, Delhi
27	Dipika Sharma	Drug binding studies of novel antimalarial compounds targeting prolyl tRNA synthetase of Plasmodium Falciparum	ICGEB, Delhi
28	Zaheen Khan	Association of hyperlipidemia with prostate cancer	ICMR-NIP, Delhi
29	Chetan Mishra	Investigating the role of mitochondrial targeted flavanoid in the attenuation of pulmonary fibrosis	CSIR-IGIB, Delhi


List of Certificates of Dissertation Work (2019)

S.N.	Certificate of Dissertation Work as a Proof
1	 <p> जामिया मिल्लिया इस्लामिया (संसदीय अधिनियम-नुसार केन्द्रीय विश्वविद्यालय) जैव प्रौद्योगिकी विभाग मौलाना मुहम्मद अली जौहर मार्ग, नई दिल्ली-25 टेल : 26981717 एक्स : 3426, फैक्स : +91-011-26980229 </p> <p> JAMIA MILLIA ISLAMIA (A Central University by an Act of Parliament) Department of Biotechnology Faculty of Natural Sciences Maulana Mohammed Ali Jauhar Marg, New Delhi-110025 Tel : 26981717 Extn : 3426 Fax : +91-011-26980229 Website : http://jmi.ac.in </p> <p style="text-align: center;">CERTIFICATE</p> <p> This is to certify that SAMREEN FATIMA is a bonafied student of Department of biotechnology and that she has successfully completed her dissertation project “ROLE OF HDACs IN RADIORESISTANCE OF Sf9 INSECT CELLS”, at INMAS, DRDO DELHI. </p> <p style="text-align: center;">  Dr. MOHD. MAHFUZUL HAQUE (Head of the Department) JAMIA MILLIA ISLAMIA NEW DELHI-110025 </p>
2	 <p> जामिया मिल्लिया इस्लामिया (संसदीय अधिनियमानुसार केन्द्रीय विश्वविद्यालय) जैव प्रौद्योगिकी विभाग मौलाना मुहम्मद अली जौहर मार्ग, नई दिल्ली-25 टेल : 26981717 एक्स : 3426, फैक्स : +91-011-26980229 </p> <p> JAMIA MILLIA ISLAMIA (A Central University by an Act of Parliament) Department of Biotechnology Faculty of Natural Sciences Maulana Mohammed Ali Jauhar Marg, New Delhi-110025 Tel : 26981717 Extn : 3426 Fax : +91-011-26980229 Website : http://jmi.ac.in </p> <p style="text-align: center;">CERTIFICATE</p> <p> This is to certify that the M.Sc. dissertation entitled “Explication of molecular mechanism behind phosphorylation by tyrosine kinase PtkA of Mycobacterium tuberculosis and identification of potential kinase inhibitors” submitted by Ms. Priya Nagpal to the Department of Biotechnology, Jamia Millia Islamia, New Delhi, in the partial fulfillment of the requirement for the degree of Master of Science, is a record of the original bonafide work carried out by her under the guidance and supervision of Dr. Sonam Grover, JH-Institute of Molecular Medicine, Jamia Hamdard. The report has reached the requisite standards for submission to the best of my knowledge, understanding and belief. </p> <p> Moreover, the results contained in this report have not been submitted in part or full to any other university or institute for the award of any degree or diploma. </p> <p style="text-align: center;">  Dr. Mohammad Mahfuzul Haque Head of Department Department of Biotechnology Jamia Millia Islamia New Delhi-110025 </p>

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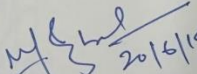
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 (लिसेदीय अधिनियमानुसार केन्द्रीय विश्वविद्यालय)
जीव प्रोद्योगिकी विभाग
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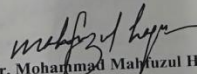
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 Tel : 26981717 Extn. : 3426
 Fax : +91-011-26980229 Website : http://jmi.ac.in



CERTIFICATE

This is to certify that the M.Sc. dissertation entitled “**Transcriptomic analysis of 2000 breast tumors and *in vitro* metabolic assays reveal a role of TP53 oncogenotype in defining metabolic state**”, submitted for the fulfillment of the requirements of the degree of Master of Science, embodies the work carried out by **Shumaila Siddiqui** under my guidance and supervision. The report has reached the requisite standards for submission to the best of my knowledge, understanding and belief. Moreover, the results contained in this report have not been submitted in part or full to any other university or institute for the award of any degree or diploma.


 20/6/19
Dr. Mohanmad Askandar Iqbal
 (Supervisor)

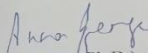

Dr. Mohanmad Mahfuzul Haque
 (Head of the department)

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NATIONAL INSTITUTE OF IMMUNOLOGY
 ARUNA ASAF ALI ROAD NEW DELHI 110 067 INDIA

CERTIFICATE


This is to certify that research written up as “**Effect of CD40 deficiency on IgM responses to a T-independent antigen**” submitted in partial fulfillment of the degree Master in Biotechnology to JAMIA MILLIA ISLAMIA, Delhi, has been carried out by **Mr. BELAL AHMAD**, Enrollment number- 17-2475, in the laboratory of **Dr. ANNA GEORGE**. It is further stated that no part of this dissertation has been submitted either in part or in full for any other degree of Jamia Millia Islamia or any other University/Institution.


 (Anna George, Ph.D.)
 Staff Scientist VII
 NII, New Delhi

डा. अन्ना जॉर्ज / Dr. Anna George
 स्टाफ़ वैज्ञानिक-VII / Staff Scientist VII
 राष्ट्रीय प्रतिरक्षा विज्ञान संस्थान
 NATIONAL INSTITUTE OF IMMUNOLOGY
 अरुणा असाफ़ अली मार्ग / Aruna Asaf Ali Marg
 नई दिल्ली-110067 / New Delhi - 110067

telefax [91 11] 26742125
 telephone [91 11] 26703765
 E-mail anna@nii.ac.in

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Defence Institute of Physiology and Allied Sciences
 रक्षा शारीरिकीया एवं संबन्ध विज्ञान संस्थान
 (An ISO 9001 : 2000 Certified Institute)

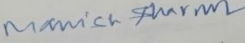
Govt. of India, Ministry of Defence, Defence Research & Development Organization
 भारत सरकार रक्षा मंत्रालय रक्षा अनुसंधान एवं विकास संगठन
 Lucknow Road, Timarpur, Delhi - 110 054
 लखनऊ रोड, तिमारपुर दिल्ली - 110 054

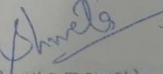
CERTIFICATE

This is to certify that

Mr. Khalid Rashid Student of M. Sc Biotechnology, Jamia Millia Islamia, New Delhi has undertaken Project Work titled "investigating the effect of hypobaric hypoxia on cysteine and glutamate transporters in rat brain" from 14th Jan 2019 to 21st June, 2019 in this establishment.

The work carried out by the candidate is property of DIPAS and should not be published without prior approval of Director, DIPAS.



 (Dr. Manish Sharma)
 Scientist 'E'
 Peptide & Proteomics Division


 (Dr. Shweta Rawat)
 Scientist 'E'
 HRD Coordinator

Office : 91-11-23883111
 FAX No : 91-11-23914790 E-mail : hrd@dipas.drdo.in
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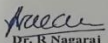
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सीसीएमबी
CCMB
 सीएसआईआर-कोशिकीय एवं आणविक जीवविज्ञान केन्द्र
 CSIR-CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY
 (वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
 (Council of Scientific & Industrial Research)
 (विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार / Ministry of Science & Technology, Govt. of India)
 उपपल रोड, हब्सिगुडा, हैदराबाद - 500 007, तेलंगाना, भारत
 Uppal Road, Habsiguda, Hyderabad - 500 007, Telangana, India



Certificate

This is to certify that Priyanka Bhardwaj, M.Sc. Biotechnology from JamiaMilliaIslamia, New Delhi has worked on the dissertation entitled "Interaction of therapeutic antibiotics and antimicrobial peptides with bacteria" under my supervision and guidance at CSIR-CCMB. The content of the M.Sc.-Project is original and has not been submitted elsewhere in its current form for the award of any academic or professional degree by the candidate.



 Dr. R Nagaraj 19/6/19
 (Supervisor)

फैक्स	अंतर्राष्ट्रीय	+91-40-27160591, 27160311	दूरभाष	+91-40-27160222-41
	भारत	040-27160591, 27160311	Telephone	
Fax	International	+91-40-27160591, 27160311	वेब साइट	http://www.ccmb.res.in
	India	040-27160591, 27160311	Website	

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
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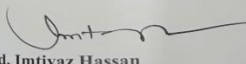


Certificate

This is to certify that **Ms. Rosy Khatoon**, a student of MSc. Biotechnology (2018-2019) of JAMIA MILLIA ISLAMIA, New Delhi has duly completed her dissertation project entitled **"EXPRESSION AND PURIFICATION OF SPHINGOSINE KINASE I AND BINDING STUDY WITH POTENTIAL INHIBITOR, CAPSAICIN"** from January to May 2019 under our supervision at Centre for Interdisciplinary Research in Basic Sciences, and Department of Biotechnology, Jamia Millia Islamia, New Delhi-110029.


Dr. Sadaf Fatima
 Internal Supervisor
 Department of Biotechnology
 Jamia Millia Islamia
 Jamia Nagar, New Delhi 110025


Dr. Mahfuzul Haque
 Professor and Head
 Department of Biotechnology
 Jamia Millia Islamia
 Jamia Nagar, New Delhi 110025


Dr. Md. Imtiyaz Hassan
 External Supervisor
 Assistant Professor
 Center for Interdisciplinary Research in Basic Science
 Jamia Millia Islamia, New Delhi.

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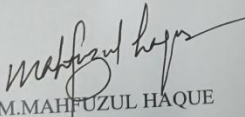
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 Fax : +91-011-26980229 Website : http://jmi.ac.in



CERTIFICATE

This is to certify that **MONU PANDEY** is a bonafied student of Department of biotechnology and that she has successfully completed her dissertation project **"TO STUDY AND EVALUATE THE IMMUNODEFICIENCY IN ATHYMIC NUDE MICE"**, at INMAS, DRDO DELHI.


Dr. M. MAHFUZUL HAQUE
 (Head of the Department)
 JAMIA MILLIA ISLAMIA
 NEW DELHI-110025

9



भारतीय समवेत औषध संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
केनाल रोड, जम्मू - 180001
Indian Institute of Integrative Medicine
(Council of Scientific & Industrial Research)
Canal Road, Jammu - Tawi - 180 001 (INDIA)

June 03, 2019

Abdul Rahim
Sr. Principal Scientist,
Head PME & IT Division,
CSIR-IIIM, Jammu.

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Bushra Khan**, student of M.Sc. (Biotechnology) from **Jamia Millia Islamia University, New Delhi, India** has successfully completed her training on "*Isolation and screening of L-asparaginase producing bacteria from different soil samples*" under the guidance of Dr. Asha Chaubey in Fermentation Technology Division of this institute from 27-01-2019 to 03-06-2019.

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

Asha Chaubey
Dr. Asha Chaubey
Principal Scientist
Head, Fermentation Technology Division

Abdul Rahim
(Abdul Rahim)

Abdul Rahim
Chairman
Planning Monitoring & Evaluation
CSIR-Indian Institute of Integrative
Medicine
Canal Road, Jammu-180001

Phones : EPABX (0191) 2569000-06; (Director) 2569111, 2569222, 2569333 (Fax) : PME 2569019 (F)
(CoA) 2569016-17 (F), PUR 2569025 (P/F), ACCTS 2569026, Website : (www.riijammu.org)

10



सी.एस.आई.आर., जीनोमिक्स और समवेत जीवविज्ञान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद, भारत सरकार)
दिल्ली विश्वविद्यालय परिसर, माल रोड, दिल्ली-110007 भारत
CSIR-Institute of Genomics & Integrative Biology
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, GOVT. OF INDIA)
DELHI UNIVERSITY CAMPUS, MALL ROAD, DELHI-110007, INDIA

CERTIFICATE

This is to certify that the work embodied in this report entitled "Cloning, over expression and phenotypic characterization of zebrafish H2A.Z.2 mutants" has been carried out under the supervision of **Dr. Vivek T Natarajan**, CSIR-Institute of Genomics and Integrative Biology, by **Ms. Ibtisam Jamaluddin**. This work is carried out as a part of the dissertation thesis in the partial fulfillment for the award of the degree of Master of Science in Biotechnology to the Department of Biotechnology, Jamia Millia Islamia, New Delhi.

Vivek T Natarajan
Vivek T Natarajan, Ph.D
Principal Scientist
CSIR-Institute of Genomics and Integrative Biology


Associate Professor
Faculty of Science
Academy of Scientific and Innovative Research (AcSIR)

Tel. : 91-11-27667602, 27666156-157, 27667439 • Fax : 91-11-27667471
Telefax : 91-11-27662407-08, 27662099 • E-mail : info@igib.res.in • Website : www.igib.res.in

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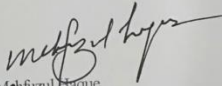
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जैव प्रोद्योगिकी विभाग
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JAMIA MILLIA ISLAMIA
 (A Central University by an Act of Parliament)
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Faculty of Natural Sciences
 Maulana Mohammed Ali Jauhar Marg, New Delhi-110025
 Tel : 26981717 Extn : 3426
 Fax : +91-011-26980229 Website : <http://jmi.ac.in>



CERTIFICATE


This is to certify that student namely ISHFAQ AHMAD MIR is a bonified student of Department of Biotechnology and that he has successfully completed his dissertation work entitled "Study of genetic expression of Endoplasmic Reticulum (ER) stress markers and downstream chaperone GRP78 in human obesity" at department of biochemistry All India Institute of Medical Sciences New Delhi 110029, India


 Dr Mehfazul Haque
 Head of Department
 Department of Biotechnology
 Jamia sMillia Islamia,
 New Delhi-110025

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जामिया मिल्लिया इस्लामिया
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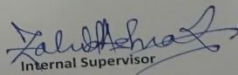
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CERTIFICATE

This is to certify that the Dissertation Report entitled "Heat-Induced Aggregation of Alpha-LA and its prevention by Trehalose and its Monomers" submitted by Khatera Haniss, a student of M.Sc Biotechnology, IV semester of Jamia Millia Islamia University, New Delhi in the partial fulfilment of the requirements for the award of degree of Master of Science in Biotechnology was completed at Center for interdisciplinary Research in Basic Science (CIRBSc.), Jamia Millia Islamia (Central University), New Delhi-110025.


 Dr. Mohammad Mahfazul Haque
 Head of Department
 Department of Biotechnology
 Jamia Millia Islamia
 New Delhi-110025


 Dr. Mohammad Zahid Ashraf
 Internal Supervisor
 Department of biotechnology
 Jamia Millia Islamia
 Jamia Nagar, New Delhi -110025

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PROTEOMICS AND BIOINFORMATICS LAB

Mohammad Irfan Qureshi, M.Sc., Ph.D.
Assistant Professor

CERTIFICATE

This is to certify that the dissertation entitled "Proteomics of *Gymnema sylvestre* leaf under drought and heat stress" submitted by Ms. Mahepara Siddiqui in partial fulfillment of the requirement for the award of degree of M.Sc. in Biotechnology to Jamia Millia Islamia, New Delhi, is a record of candidate's own work carried out by her under my supervision. The matter embodied in this dissertation is original and has not been submitted for the award of any other degree.

(Dr. M. Irfan Qureshi)
Supervisor

Mahfazul Haque 20/6/19
(Dr. Mohammad Mahfazul Haque)
Professor and Head

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जामिया मिल्लिया इस्लामिया
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CERTIFICATE

This is to certify that dissertation entitled "Expression and Purification of Optic Atrophy3 protein of *Plasmodium falciparum* in *E.coli*" submitted by Ms. Sumbul Khan at Jamia Millia Islamia, New Delhi, in partial fulfillment of the requirement of the degree of Master of Science in Biotechnology embodies original research work carried out under the guidance of Dr. Asif Mohammed (International Centre for Genetic Engineering and Biotechnology, New Delhi) and Dr. Sadaf Fatima (Department of Biotechnology, Jamia Millia Islamia).


Mahfazul Haque
Dr. Mohammad Mahfazul Haque
Head of the Department
Department of Biotechnology
Jamia Millia Islamia
New Delhi - 110025

Sadaf Fatima
Dr. Sadaf Fatima
Internal Supervisor
Department of Biotechnology
Jamia Millia Islamia
New Delhi - 110025

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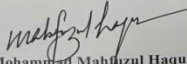
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 Fax : +91-011-26980229 Website : <http://jmi.ac.in>




CERTIFICATE

This is to certify that the Dissertation Report entitled "**Counteraction of Aggregation in Alpha-Lactalbumin by Monomeric Sugars**" submitted by **Areeba Haroon**, a student of **M.Sc Biotechnology**, IV semester of Jamia Millia Islamia University, New Delhi in the partial fulfilment of the requirements for the award of degree of Master of Science in Biotechnology was completed at Center for interdisciplinary Research in Basic Science (CIRBSc.), Jamia Millia Islamia (Central University), New Delhi-110025.




Dr. Mohammad Mahfuzul Haque
Head of Department
Department of Biotechnology
Jamia Millia Islamia
New Delhi-110025



Dr. Mohammad Zahid Ashraf
Internal Supervisor
Department of biotechnology
Jamia Millia Islamia
Jamia Nagar, New Delhi -110025

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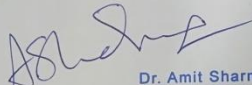

INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY
 ICGEB Campus, Aruna Asaf Ali Marg
 New Delhi - 110 067, India
<http://www.icgeb.org>

Tel : 91-11-26741358/61
 91-11-26742357/60
 91-11-26741007
 Fax : 91-11-26742316
 E-mail : icgeb@icgeb.res.in

Date – June 15, 2019

CERTIFICATE

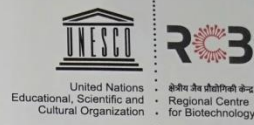
This is to certify that the project entitled as "**Purification and Biochemical Analysis of Plasmodium falciparum Glutaminyl tRNA Synthetase**" submitted by **Payal Mittal**, student of MSc. Biotechnology, IV Semester of Jamia Millia Islamia, New Delhi, in the partial fulfilment of the requirements for the award of the degree of Masters of Science in Biotechnology, was completed under the guidance of Dr. Amit Sharma at International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi for the duration of six months (January 7 to June 15, 2019).



Dr. Amit Sharma
Project-In-Charge
Structural Parasitology
ICGEB, New Delhi

Group Leader
Structural Parasitology, Molecular Medicine
International Centre for Genetic Engineering and Biotechnology (ICGEB)
Aruna Asaf Ali Marg
New Delhi-110067
E-mail: amit.icgeb@gmail.com

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Certificate

This is to certify that **Ms. Shahin Anjum** (Roll no.: 17MBT027), student of Department of Biotechnology, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, has worked on the dissertation project **"Isolation and Quantification of Dengue virus in different Cell lines"**. She has carried out the above project under my guidance and supervision during academic period from 15.01.2019 to 18.06.2019 at **Regional Centre for Biotechnology (RCB)**, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-121001, Haryana, India.

She has incorporated her findings in her bonafide research work and submitted it for the partial fulfilment of the degree of Masters in Biotechnology as per Jamia Millia Islamia, New Delhi.

(Dr. Prasenjit Guchhait)
Professor
Regional Centre for Biotechnology

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CERTIFICATE


This is to certify that this thesis entitled, **"INVESTIGATION OF INTERACTIONS OF CKAMP FAMILY PROTEINS WITH PSD-95 USING M2H"**, submitted by Mr. Abdur Rahman Manzer for the master's degree (MSc.biotechnology) to Jamia Millia Islamia is based on the work carried out by him at the National Centre for Cell Science, Pune. This work is original and has not been submitted for any diploma or degree of any other university or institution.

Prof.M. Mahfuzul Haque
(Internal Supervisor)
Head of Department
Biotechnology
Jamia Millia Islamia
New Delhi 110025

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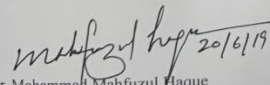
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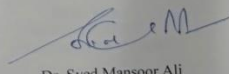
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CERTIFICATE

This is to certify that Miss Neha Khan, a bonafide student of M.Sc Biotechnology, Department of Biotechnology, Jamia Millia Islamia, New Delhi has duly completed her project report entitled "Cloning, Expression, Purification and Biophysical Characterization of MurC from *Salmonella enterica serovar Typhi*" for the partial fulfillment of the requirement of degree M.Sc Biotechnology. This work has been accomplished at Department of Biophysics, All India Institute of Medical Sciences (AIIMS), New Delhi.


 Dr. Mohammad Mahfuzul Haque
 Professor and Head


 Dr. Syed Mansoor Ali
 (Internal Supervisor)

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Certificate

On the basis of declaration made by Shubham Chaudhary, we hereby certify that the project report entitled "Database Development on the Plant-Microbial Interaction (PMI-base)" submitted by Shubham Chaudhary to the Department of Biotechnology, Jamia Millia Islamia, New Delhi, for the partial fulfillment of the requirements of the degree of M.Sc. (Biotechnology), is carried out under my guidance and supervision. The report has reached the requisite standards for submission.


 Dr. Meetu Gupta
 (Internal Supervisor)
 Department of Biotechnology
 Faculty of Natural Sciences
 Jamia Millia Islamia, New Delhi-25


 Dr. Mohammad Mahfuzul Haque
 Head of the Department
 Department of Biotechnology
 Jamia Millia Islamia, New Delhi-25

21

जामिया मिल्लिया इस्लामिया
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CERTIFICATE

This is to certify that this dissertation entitled **“A comparative analysis of nanocurcumin and quercetin in combating high altitude cerebral edema(HACE) in rat model ”** submitted by **Ms. Khilat Rehana** at **Jamia Millia Islamia , New Delhi**, in partial fulfillment of the requirement for the award of the degree of **Master of Science in Biotechnology** embodies original research work carried out under the guidance of **Dr. Deepika Saraswat ‘Sc E’ at Defense Institute of Physiology and allied Sciences ,DRDO** and **Dr.Meetu Gupta, Associate Professor Department of Biotechnology Jamia Millia Islamia, New Delhi 110025**


Prof.Mohammad Mahfuzul Haque
 Head of Department
 Department of Biotechnology,
 Jamia Millia Islamia
 New Delhi-110025


Dr.Meetu Gupta
 Associate Professor
 Department of Biotechnology
 Jamia Millia Islamia
 Delhi-110025

22

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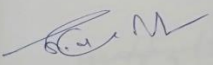


TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss. **Reetika Tandon**, D/o **Mr. Ravi Tandon**, student of **M.Sc. Biotechnology (2017-2019)**, **Jamia Millia Islamia**, has successfully completed her internship under my supervision in **Department of Biotechnology** at **Jamia Millia Islamia, New Delhi** for the duration of six months starting from **07th January 2019 to 20th June 2019**. She worked on the project entitled **“Evaluation of Borate as Anti-inflammatory and Anti-cancer agent”**.

Through the course of internship, she has been sincere, avid learner and has worked hard in laboratory.

I wish her success for all his future endeavours.


Dr. Syed Mansoor Ali
 Assistant professor
 Department of Biotechnology
 Jamia Millia Islamia, New Delhi

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CERTIFICATE

This is to certify that **Ms. Fatima Ali**, MSc. Biotechnology (2017-2019) final year student of JAMIA MILLIA ISLAMIA, New Delhi has duly completed her dissertation project entitled **"Virtual high-throughput screening of natural compounds in-search of potential inhibitors for Carbonic Anhydrase II"** (January-June 2019) at Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025.



Dr. Sadaf Fatima
 Assistant Professor
 Department of Biotechnology
 Jamia Millia Islamia
 Jamia Nagar, New Delhi 110025




Dr. Mohammed Mahfuzul Haque
 Professor and Head
 Department of Biotechnology
 Jamia Millia Islamia
 Jamia Nagar, New Delhi 110025

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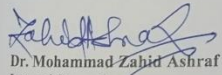
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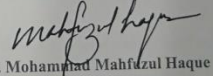
CERTIFICATE

This is to certify that the M.Sc. dissertation entitled **"Identification of bioactive natural products as potential inhibitors of Serum and glucocorticoid-regulated kinase 1: A virtual screening and simulation study"** submitted by **Shiza Siddiqui** to the Department of Biotechnology, Jamia Millia Islamia, New Delhi, in the partial fulfilment of the requirements of the degree of Master of Science (Biotechnology), is a record of the original bonafide work carried out by her under my guidance and supervision. The report has reached the requisite standards for submission to the best of my knowledge, understanding and belief.

Moreover, the results contained in this report have not been submitted in part or full to any other university or institute for the award of any degree or diploma.



Dr. Mohammad Zahid Ashraf
 Internal Supervisor
 Department of Biotechnology
 Jamia Millia Islamia
 Jamia Nagar, New Delhi 110025



Dr. Mohammed Mahfuzul Haque
 Professor and Head
 Department of biotechnology
 Jamia Millia Islamia
 Jamia Nagar, New Delhi 110025

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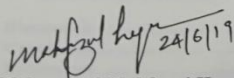


Date – June 07, 2019

CERTIFICATE

This is to certify that the dissertation entitled “Study of effects of radiation on TLR expression in GI tract of C57BL/6 mice” submitted by **Simran Sharma**, student of MSc. Biotechnology, Jamia Millia Islamia, New Delhi, in the partial fulfilment of the requirements of the degree of Masters of Science in Biotechnology, is a record of the original bonafide work carried out by her under my guidance. The report has reached the requisite standards for submission to the best of my knowledge, understanding and belief.

Moreover, the results contained in this report have not been submitted in part or full to any other university or institute for the award of any degree or diploma.



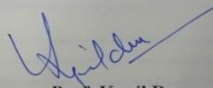
Prof. Mohammad Mahfuzul Haque

Professor and Head

Department of Biotechnology

Jamia Millia Islamia

New Delhi-110025



Prof. Kapil Dev

Assistant professor (Internal Supervisor)

Department of Biotechnology

Jamia Millia Islamia

New Delhi-110025

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ट्रांसलेशनल स्वास्थ्य विज्ञान एवं प्रौद्योगिकी संस्थान
TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE
 An autonomous institute of the Deptt. of Biotechnology, Ministry of Science & Technology, Govt of India

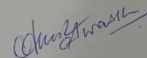
NCR Biotech Science Cluster
 3rd Milestone, Faridabad-Gurgaon Expressway,
 P O Box No. 04, Faridabad-121001
 Haryana, India

Date: 6th June 2019

CERTIFICATE

This is to certify that **MS. Umang Berry** (Roll no.: 20177678), student of Department of Biotechnology, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, has worked on the Dissertation project “Cloning and Expression of Human PD-L1”. She has carried out the above project under my guidance and supervision during the academic period from 26.12.2018 to 5.06.2019 at **Translational Health Science and Technology Institute (THSTI)**, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-121001 Haryana, India.

She has incorporated her findings in her bona fide research work and submitted it for the partial fulfilment of the degree of Masters in Science in Biotechnology as per Jamia Millia Islamia, New-Delhi.



Supervisor

(Dr. Amit Awasthi)

Dr. Amit Awasthi, Ph.D.
 Associate Professor
 Translational Health Science and Technology Institute
 (An autonomous institute of the Deptt. of Biotechnology, Govt. of India)
 NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway,
 PO Box No. 04, Faridabad-121001 Haryana, India

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جامیاءا میلیا اسلامیاءا
 (केंद्रीय अधिनियमानुसार केन्द्रीय विश्वविद्यालय)
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 Fax : +91-011-26980229 Website : <http://jmi.ac.in>



Certificate

This is to certify that the dissertation entitled “**Optimizing protein expression and purification of Dendritic Cell Specific ICAM-3 Grabbing Non-integrin (CD209)**”, submitted by **Ms. Sana Parveen** at Jamia Millia Islamia, New Delhi, in partial fulfillment of the requirement of the degree of Master of science in Biotechnology embodies original research work carried out under guidance of **Dr. Rupesh Chaturvedi (School of Biotechnology, JNU)** and **Dr. Mohammad Mahfuzul Haque (Department of Biotechnology, Jamia Millia Islamia)**.

Dr. Mohammad Mahfuzul Haque
 HOD & Internal Supervisor
 Department of Biotechnology
 Jamia Millia Islamia
 New Delhi, 110025

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JAMIA MILLIA ISLAMIA
 (A Central University by an Act of Parliament)
Department of Biotechnology
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 Maulana Mohammed Ali Jauhar Marg, New Delhi-110025
 Tel.: +91-11-26988335, 26981717 Extn. : 3426
 Fax : 91-011-26980229 Website : <http://jmi.ac.in>



CERTIFICATE


This is to certify that the research work embodied in this thesis entitled “**Production and Purification of Anti-Clonotypic Antibody for Immunological Investigations in a TCR Transgenic Mouse Model**.” submitted in partial fulfillment of the degree Master in Biotechnology to JAMIA MILLIA ISLAMIA, Delhi, has been carried out by **Mr. VIDIT GAUR**, Enrollment number- 17-2497, under the supervision of **Dr. NIMESH GUPTA**. It is further stated that no part of this dissertation has been submitted either in part or in full for any other degree of Jamia Millia Islamia or any other University /Institution. He fulfills all the requirements as laid down under the University guidelines.

Faculty Gulje
 Dr. Mohammad Mahfuzul Haque
 Professor & Head
 Department of Biotechnology
 Jamia Millia Islamia

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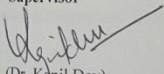
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 (संसदीय अधिनियमानुसार केन्द्रीय विश्वविद्यालय)
जैव प्रोद्योगिकी विभाग
 मौलाना मुहम्मद अली जौहर मार्ग, नई दिल्ली-25
 दूरभाष : 26981717 Extn. : 3426, फैक्स : +91-011-26980229

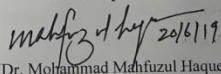
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CERTIFICATE

This is to certify that Dissertation entitled “Genetic polymorphism of β -functional gene - GLIS3 in type 2 diabetes” submitted by Diksha towards the partial fulfilment of the requirements for the award of degree of Master of Science in Biotechnology, Jamia Millia Islamia, New Delhi, is a bonafide research work carried out by her. The matter embodied in this report has not been submitted for the award of any diploma /degree by any university at any occasion.


Supervisor

 (Dr. Kapil Dev)
 Assistant Professor
 Department of Biotechnology,
 Jamia Millia Islamia,
 New Delhi – 110025

Head of Department

 (Dr. Mohammad Mahfuzul Haque)
 Professor & Head
 Department of Biotechnology,
 Jamia Millia Islamia,
 New Delhi - 110025

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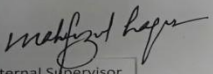
जामिया मिल्लिया इस्लामिया
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CERTIFICATE

This is to certify that M.Sc. Dissertation entitled “EFFECT OF GONADOTROPIN RELEASING HORMONE AGONIST ON CELL PROLIFERATION IN GLOBLASTOMA CELL LINE, U87MG” has been carried out by Ms.Nida Khalid, a final year student of M.Sc Biotechnology, Department of Biotechnology, Jamia Millia Islamia, New Delhi-110025, for the session 2017-2019 under my supervision. This project embodies the original work done by Ms. Nida Khalid and has not been submitted in part or for the award of any other degree.



 Internal Supervisor
Dr. Mohammad Mahfuzul Haque
 Head of Department,
 Department of Biotechnology,
 Jamia Millia Islamia,
 New Delhi-110025

List of Certificates of Dissertation Work (2018)


S.N.	Certificate of Dissertation Work as a Proof
1	 <p>INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY ICGEB Campus, P.O. Box : 10504, Aruna Asaf Ali Marg, New Delhi - 110 067, India http://www.icgeb.trieste.it</p> <p>Tel : 91-11-26741358/61 91-11-26742357/60 91-11-26741007 Fax : 91-11-26742316 E-mail : icgeb@icgeb.res.in</p> <p>8th May 2018</p> <p style="text-align: center;">CERTIFICATE</p> <p>On the basis of declaration made by the student SAADIA NASEER, I hereby certify that the project report entitled "Cloning of spidroin genes (sp1 & sp2) with chloroplast transformation vector pVSR326" submitted by Saadia Naseer to the Department of Biotechnology, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, for the partial fulfilment of the requirement of the degree of M.Sc. Biotechnology, is carried out by her under my guidance and supervision. The report has reached the requisite standards for submission.</p> <p style="text-align: center;"><i>S. Leelavathi</i></p> <p>Dr. Sadhu Leelavathi S. Leelavathi Group Leader Plant Transformation Group ICGEB</p>
2	<p>JAMIA MILLIA ISLAMIA (A Central University by an Act of Parliament)</p>  <p>Department of Biotechnology Faculty of Natural Sciences Maulana Mohammed Ali Jauhar Marg, New Delhi-110025 Tel.: +91-11-26988335, 26981717 Extn. : 3426 Fax : 91-011-26980229 Website : http://jmi.ac.in</p>  <p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the Dissertation reported entitled "Database Generation of Membrane Mechanical Proteins and Analysis of their Cellular Properties" submitted by Sanchita Jain student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia, New Delhi in the partial fulfillment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the guidance of Dr. Lipi Thukral at CSIR-Institute of Genomics and Integrative Biology, New Delhi 110025.</p> <p style="text-align: center;"><i>Mahfuzul Haque</i></p> <p>Prof. Mohammad Mahfuzul Haque Head Department of Biotechnology Jamia Millia Islamia New Delhi-110025</p>

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CERTIFICATE

This is to certify that the Dissertation Report entitled “**EXPRESSION AND PURIFICATION OF ATG8 FAMILY MEMBER PROTEINS**” submitted by **SHIVANI SINGH** student of M.Sc. Biotechnology, of Jamia Millia Islamia, New Delhi in the partial fulfillment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the guidance of **Dr. Sarika Chaudhary** at **CSIR-Institute of Genomic and Integrative Biology**, Sukhdev Vihar Mathura road New Delhi-110025

Mahfuzul Haque 10/5/18

Dr. Mohammad Mahfuzul Haque

Head
Department of Biotechnology
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New Delhi-110025

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Fax : 91-011-26980229 Website : <http://jmi.ac.in>



CERTIFICATE


This is to certify that the Dissertation Report entitled “**Expression, Purification and Biophysical Characterization of Human Fas Activated Serine/Threonine Kinase**” submitted by **Yameena Afreen**, student of MSc. Biotechnology, IV semester of Jamia Millia Islamia, New Delhi in the partial fulfilment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the supervision of **Dr. Imtaiyaz Hassan** at Centre for Interdisciplinary Research in Basic Sciences Jamia Millia Islamia, New Delhi.

Mahfuzul Haque 08/5/18

Prof. Mohammad Mahfuzul Haque
Head
Department of Biotechnology
Jamia Millia Islamia, New Delhi

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CERTIFICATE

This to certify that Ms. Reena Yadav is a bonafide student of MSc Biotechnology (Sem IV) of Jamia Millia Islamia. She has done her project entitled "Cloning of mammalian IKK ϵ gene deletion 1 segment (1 to 301) and the role of IKK ϵ in metastasis of ovarian cancer". Under the supervision of Dr. Anju Katyal at Dr. B.R. Ambedkar Centre for Biomedical Research (D.U) in partial fulfilment of the requirement for the award of Degree of Master of Science (Biotechnology).

Dr. M. Mahfuzul Haque
Professor and Head,
Department of Biotechnology,
Jamia Millia Islamia University
New Delhi.

6

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CERTIFICATE

This is to certify that the dissertation report entitled "Arsenate-phosphate interaction: role of sulphur related enzymes and genes in Indian mustard plant (*Brassica juncea* L.)" submitted by Miss Khan Sadia towards partial fulfilment of the degree of the requirement of Master of Science in Biotechnology, Jamia Millia Islamia, Central University, New Delhi is a bonafide work carried out by her under my guidance and supervision. The presented data are not allowed for publication without any consent. The matter embodied in the report has not been submitted for the award of any other degree.



Dr. Meeta Gupta
Assistant Professor
Department of Biotechnology
Jamia Millia Islamia
New Delhi-110025

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CERTIFICATE

This is to certify that the project entitled “**The Role of Silicon in Mitigation of Arsenic Stress in Indian Mustard Plant (*Brassica juncea* L.)**” submitted by **SAHIBA**, student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia University, New Delhi for the partial fulfilment of the degree of **Master of Science in Biotechnology**, is a record of her original bonafide work completed under **Dr. Meetu Gupta**, assistant professor at Department of Biotechnology, Jamia Millia Islamia, New Delhi.

Mahfuzul Haque 09/15/18
 Dr. Mohd. Mahfuzul Haque
 Head
 Department of Biotechnology
 Jamia Millia Islamia
 New Delhi-110025

Dr. Mohammad Mahfuzul Haque
 Professor & Head
 Department of Biotechnology
 Jamia Millia Islamia
 New Delhi-110025

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CERTIFICATE

This is to certify that the research thesis entitled “**Analysis of GFP-HBx protein expression by fluorescent microscopy and immunoblotting**” submitted by **Babangida Alhaji Jinjiri** student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia, New Delhi in the partial fulfillment of the requirements for award of degree of Master of Science in Biotechnology was completed under the guidance of **Dr. Syed Naqui Kazim** at Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi.


Mahfuzul Haque 10/15/18
 Prof. Mohammad Mahfuzul Haque
 Head
 Department of Biotechnology
 Jamia Millia Islamia,
 New Delhi-110025

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CERTIFICATE

This is to certify that **Ms. Kainat Mirza**, a student of M.Sc Biotechnology, IV semester, Jamia Millia Islamia, New Delhi has completed her six months dissertation work entitled **“Comparative study of HBV expression markers in HepG2 cells transfected with HBV expressing plasmids”** successfully. She has completed this work from **Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia**, under the supervision of **Dr. Syed Naqui Kazim**. The dissertation was a compulsory part of her M.Sc. degree.

I wish her good luck and a bright future.


Mahfuzul Haque 10/5/18
Prof. Mohammad Mahfuzul Haque
(Professor & Head)
Department of Biotechnology
Faculty of Natural Sciences
Jamia Millia Islamia
New Delhi -110025

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CERTIFICATE

This is to certify that the dissertation report entitled “Cloning and expression analysis of WRKY transcription factors genes under heavy metal stress in Oryza Sativa.” submitted by Miss Aruba Khan towards partial fulfillment of the requirement for the degree of Master of Science in Biotechnology, Jamia Millia Islamia, Central University, New Delhi is a bonifide research work carried out by her under my guidance and supervision. The presented data are not allowed for publication without my consent. The matter embodied in the report has not been submitted for award of any other degree.



Mahfuzul Haque 10/5/18
Prof. Mahfuzul Haque
Head of the Department

Dr. Mohammad Mahfuzul Haque
Professor & Head
Department of Biotechnology
Jamia Millia Islamia
New Delhi-110025

11

JAMIA MILLIA ISLAMIA
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Tel.: +91-11-26988335, 26981717 Extn. : 3426
Fax : 91-011-26980229 Website : <http://jmi.ac.in>



Date- 7th May 2018

CERTIFICATE

This is to certify that the Dissertation Report entitled "**Immuno-informatics approach for designing peptide based vaccines for tuberculosis**" submitted by **Saba Parveen** student of M.Sc. Biotechnology, IV Semester of Jamia Millia Islamia University, New Delhi in the partial fulfilment of the requirements for the award of the degree of Masters of Science in Biotechnology, was completed under guidance of **Dr. Sadhna Sharma** at DS Kothari Centre (DSKC) for Research and Innovation in Science Education, Miranda House, Department of Zoology, Delhi University, New Delhi-110007.



Mahfuzul Haque 09/5/18
Prof. Mohammad Mahfuzul Haque
Head
Department of Biotechnology,
Jamia Millia Islamia University,
New Delhi-110025.

Dr. Mohammad Mahfuzul Haque
Professor & Head
Department of Biotechnology
Jamia Millia Islamia
New Delhi-110025

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Maulana Mohammed Ali Jauhar Marg, New Delhi-110025
Tel.: +91-11-26988335, 26981717 Extn. : 3426
Fax : 91-011-26980229 Website : <http://jmi.ac.in>




CERTIFICATE


This is to certify that the project report entitled "**Deletion constructs of C-terminal domain of Clostridium perfringens enterotoxin: Cloning, expression and purification**" submitted by **Shireen S, M. Sc. IV Semester** of Jamia Millia Islamia University, New Delhi for the partial fulfillment of the requirement for the award of the degree of Masters of Science in Biotechnology, is a record of the her original bonafide work, completed at National Institute of Immunology, New Delhi.

Mahfuzul Haque 11/5/18
Dr. Mohammad Mahfuzul Haque,
Head of Department,
Department of Biotechnology,
Jamia Millia Islamia

13

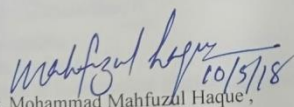
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Fax : 91-011-26980229 Website : <http://jmi.ac.in>




CERTIFICATE


This is to certify that the project report entitled "**Cloning of LysR-type transcription regulator from *Gordonia***" submitted by Vaishnavi Mukkavar, M. Sc. IV Semester of Jamia Millia Islamia University, New Delhi for the partial fulfillment of the requirement for the award of the degree of Masters of Science in Biotechnology, is a record of the her original bonafide work, completed at Indian Institute of Technology Delhi (IIT-D), New Delhi.


Dr. Mohammad Mahfuzul Haque,
Head of Department,
Department of Biotechnology,
Jamia Millia Islamia

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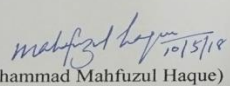
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Fax : 91-011-26980229 Website : <http://jmi.ac.in>




CERTIFICATE

On the basis of declaration made by the student **Shahzul Hasan**, I hereby certify that the project report entitled "**Phytochemical Screening and Biological Activities of Polyherbal plant (Triphala)**" submitted by him to **Department of Biotechnology, Jamia Millia Islamia** for the partial fulfillment of the requirements of the degree of **M. Sc. Biotechnology**, is carried out by him under the guidance and supervision of **Dr. Sadaf Fatima** at **Department of Biotechnology**. The report has reached the requisite standards for submission.



(Mohammad Mahfuzul Haque)
Professor & Head
Department of Biotechnology
Jamia Millia Islamia
New Delhi 110025

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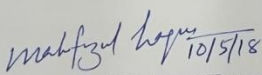


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CERTIFICATE


This is to certify that the Dissertation Report entitled “**To study antimalarial potential of novel carbohydrate fused pyrano[3,2-c]pyranones**” submitted by **Rafia Mehboob** student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia, New Delhi in the partial fulfillment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the guidance of **Dr. Shailja Singh** at Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi.


Prof. Mohammad Mahfuzul Haque

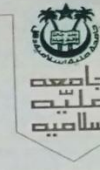
Head
Department of Biotechnology
Jamia Millia Islamia, New Delhi-110025
New Delhi-110025

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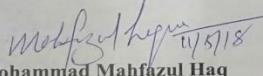


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Fax : 91-011-26980229 Website : <http://jmi.ac.in>



CERTIFICATE

On the basis of declaration made by the student **Prachi Singh**, student of M.Sc. Biotechnology, I hereby declare that the project entitled, “**Interaction of PRC2 Complex and lncRNA HOTAIR**” which is submitted by Prachi Singh to the Department of Biotechnology, Jamia Millia Islamia, New Delhi, in partial fulfillment of the requirement of the degree of **M.Sc. Biotechnology**, have not been submitted in part or full to any other university or institute for the award of any degree or diploma.


Dr. Mohammad Mahfuzul Haq

Head of Department
Department of Biotechnology
Jamia Millia Islamia
New Delhi

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Fax : 91-011-26980229 Website : <http://jmi.ac.in>



CERTIFICATE

This is to certify that the project entitled "Unraveling the Folding Pathway of Human Fas-Activated Serine/Threonine Kinase Domain-2" submitted by ADIBA PARVEZ, student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia University, New Delhi in the partial fulfillment of the requirements for the award of degree of **Master of Science in Biotechnology**, is a record of her original bonafide work completed under **Dr. Imtaiyaz Hassan** at Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi.

Dr. Mohammad Mahfuzul Haque
Head
Department of Biotechnology
Jamia Millia Islamia
New Delhi-110025

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Department of Biotechnology

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CERTIFICATE

On the basis of declaration made by the student **Zunaira Tazkeer Hussain**, student of M.Sc. Biotechnology, I hereby declare that the project entitled, "**Characterization of a misfolded protein that imparts Proteotoxic stress to Mitochondrial sub-compartments**" which is submitted by Zunaira Tazkeer Hussain to the Department of Biotechnology, Jamia Millia Islamia, New Delhi, in partial fulfilment of the requirement of the degree of **M.Sc. Biotechnology**, have not been submitted in part or full to any other university or institute for the award of any degree or diploma.

Dr. Mohammad Mahfazul Haq

Head of Department

Department of Biotechnology

Jamia Millia Islamia

New Delhi

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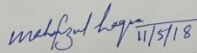


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 Fax : 91-011-26980229 Website : <http://jmi.ac.in>



CERTIFICATE

This is to certify that this dissertation entitled "Isolation of miRNA from Exosomes secreted by *Helicobacter pylori* infected AGS cells" submitted by Ms. Sofia at Jamia Millia Islamia, New Delhi, in partial fulfillment of the requirement for the award of the degree of Master of Science in Biotechnology embodies original research work carried out under the guidance of Prof. Rupesh Chaturvedi at School of Biotechnology, Jawaharlal Nehru University.



Prof. Mohammad Mahfuzul Haque
 Head
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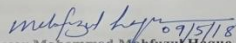
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 Fax : 91-011-26980229 Website : <http://jmi.ac.in>



8, May 2018

CERTIFICATE

This is to certify that the Dissertation reported entitled "BIOPHYSICAL CHARACTERIZATION OF PROTEIN AFTER ISOLATION AND PURIFICATION FROM MEDICINALLY IMPORTANT PLANT *Cassia fistula*" submitted by MOHD GUFRAN student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia, New Delhi in the partial fulfillment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the guidance of Dr. ASIMUL ISLAM, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi 110025.



Professor Mohammad Mahfuzul Haque
 Head
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 Faculty of Natural Sciences,
 Jamia Millia Islamia,
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
This is to certify that the Dissertation report entitled "**Regeneration and Agrobacterium mediated Transformation studies of *Glycine max* (Soya bean) and Screening of *Vigna radiata* (Mung bean) Transgenic Plants**" submitted by, **ABHISHEK** student of M.Sc. Biotechnology, IV Semester of Jamia Millia Islamia, New Delhi in the partial fulfilment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the guidance of **Dr. Sadhu Leelavathi** at International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi.




Dr. Mahfuzul Haque
Dr. Mohammad Mahfuzul Haque
Professor & Head
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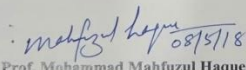


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This is to certify that the Dissertation Report entitled "**Purification of Protein from *Cassia fistula* using Ion Exchange and Gel Filtration Chromatography and its biophysical Characterization**" submitted by **MAH ALAM** student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia, New Delhi in the partial fulfilment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the guidance of **Dr. Asimul Islam** at Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi.



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This is to certify that the Dissertation Report entitled "Effect of molecular chaperone protein STUB1/CHIP on the stability kinetics of GST" submitted by **Md. Kaiser Imam** student of M.Sc. Biotechnology, IV semester of Jamia Millia Islamia, New Delhi in the partial fulfillment of the requirements for the award of degree of Master of Science in Biotechnology was completed under the guidance of **Dr. Syed Naqui Kazim** at the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi.

Mahfuzul Haque 10/5/18

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Date- 10th May 2018

CERTIFICATE

This is to certify that the Dissertation Report entitled "Investigating the Role of Endogenous Hydrogen Sulfide in Brain during Unstimulated State" submitted by **MEO KHAN** student of M.Sc. Biotechnology, IV Semester of Jamia Millia Islamia, New Delhi in the partial fulfillment of the requirements for the award of the degree of Masters of Science in Biotechnology, was completed under guidance of **Dr. Manish Sharma (Sc 'D')** at Defence Institute of Physiology and Allied Sciences (DIPAS); Defence Research and Development Organization (DRDO), Timarpur, New Delhi-110054.

Mahfuzul Haque 10/5/18

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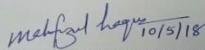

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Date- 10th May 2018

CERTIFICATE

This is to certify that the Dissertation Report entitled "**Role of Hydrogen Sulfide in Modulating Pathologic Responses to Hypobaric-Hypoxia in Heart**" submitted by **ANJUM NISHA** student of M.Sc. Biotechnology, IV Semester of Jamia Millia Islamia, New Delhi in the partial fulfilment of the requirements for the award of the degree of Masters of Science in Biotechnology, was completed under guidance of **Dr. Manish Sharma (Sc 'D')** at Defence Institute of Physiology and Allied Sciences (DIPAS); Defence Research and Development Organization (DRDO), Timarpur, New Delhi-110054.


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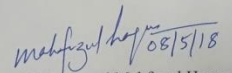

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Date- 7th May 2018

CERTIFICATE

This is to certify that the Dissertation Report entitled "**Purification and Biochemical Analysis of *Plasmodium falciparum* Cysteinyl tRNA Synthetase**" submitted by **Anisha Handoo** student of M.Sc. Biotechnology, IV Semester of Jamia Millia Islamia University, New Delhi in the partial fulfilment of the requirements for the award of the degree of Masters of Science in Biotechnology, was completed under guidance of **Dr. Amit Sharma** at International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi for the duration of four months (1st of January to 30th of April, 2018).


Dr. Mohammad Mahfuzul Haque

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Fax: 91-11-26742316
E-mail: icgeb@icgeb.res.in

Date -7th May, 2018

CERTIFICATE

This is to certify that the project entitled as " Drug binding studies of novel antimalarial compounds targeting *Plasmodium falciparum* Prolyl tRNA synthetase" submitted by Dipika Sharma, MscIV semester of Jamia Millia Islamia University, New Delhi for the partial fulfillment of the requirement for the award of the degree of Masters of Science in Biotechnology, is a record of her original bonafide work completed at International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi for the duration of four months (1st of January to 30th of April, 2018).

Dr. Armit Sharma

Group Leader

Structural Parasitology, Molecular Medicine

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I.C.M.R. - NATIONAL INSTITUTE OF PATHOLOGY
(भारतीय आयुर्विज्ञान अनुसंधान परिषद)
(Indian Council of Medical Research)
"श्रीरामचारी भवन", सफदरजंग अस्पताल परिसर,
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Post Box No. 4909, New Delhi-110029 (India)



CERTIFICATE

This is to certify that the project entitled, "Association of Hyperlipidemia with Prostate Cancer" submitted by Ms. Zaheen Khan (Roll no. 16MBT026) to Jamia Millia Islamia, New Delhi, in the partial fulfillment of the requirement for the award of the degree of MSc. Biotechnology is a record of bonafide work carried by her under my guidance. The project fulfills the requirements as per the regulation of this institute and in my opinion meets the necessary standards for submission. The contents of this report have not been submitted and will not be submitted either in part or full, for the award of any other degree or diploma and the same is certified.

Supervisor
Dr. Anju Bansal
Scientist "E"

National Institute of Pathology, ICMR
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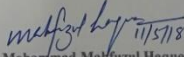
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This is to certify that the project report entitled "Investigating the role of mitochondria targeted flavonoid in the attenuation of idiopathic pulmonary fibrosis" is submitted by Chetan Mishra, M.Sc Biotechnology (IV Semester) of Jamia Millia Islamia University, New Delhi, for the partial fulfilment of the requirements for the award of degree of **Masters of Science in Biotechnology**. This report is a record of his original bonafide work, completed at CSIR- Institute of Genomics and Integrative Biology, New Delhi.


Dr. Mohammad Mufuzul Haque
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