<u>Department of Biotechnology</u> <u>Jamia Millia Islamia</u>

RESEARCH PROJECTS

S.NO	PI	Project	Funding Agency	Amount	Year
1.	Prof. Mohammad Zahid Ashraf	 Investigating the role of Hypoxia Inducible Factors-1a (HIF-1α) and NLRP3 Inflammasome axis in Pre- 	National Bioscience Award-Grant, Department of Biotechnology,	(INR) 15 Lakh	2019-2022
		Eclampsia during Pregnancy.			
		2. Effect of Hypoxia on tissue factor mediated coagulation pathway and their function in hypoxia induced thromboembolism.	SPARC- MHRD (International collaboration with National University of Singapore)	57 Lakh	2018-2020
		3. Determination of antithrombotic potential of traditionally used Unani formulations.	AYUSH, Govt of India,	58 Lakh	2018-2021
		4. Role of Poly(ADP-ribose) Polymerase-1 (PARP1) in Hypoxia-induced Thrombosis.	Shastri Institutional Indo- Canadian Collaborative Research	10 Lakh	2018-2021

		5. Vitamin D level at HA is Attributable to Higher Incidence of Thrombosis at High Altitude and the Role of NLRP3 inflammasome.	Department of Biotechnology	60 Lakh	2019-2022
		 6. 6Search for novel anti-platelet and anti-thrombin peptides from Indian viper venom (Daboiarusselii): Purification, characterization and evaluation of its antithrombotic potential 	Department of Biotechnology (North East Region programme)	20 Lakh	2018-2021
		 7. 7The LONG NONCODING RNA (lncrna) Landscape of hypoxia induced thrombosis. 	Science and Engineering research board	55 Lakh	2019-2022
		8. 8Characterizing Milk Colostrum of Ladakhi Cows and Yak for Identification of Biomolecules with Therapeutic Potential	Department of Science & Technology (ASACODER program) Multicentric project: NDDRI Karnal, IISc, Bangalore; DRDO , Leh and JMI	40 Lakh	2020-2023
2.	Prof. Mohammad Husain	1. Investigation of anti HIV potential of some herbal plants Adhatoda vasica, Boerhaavia diffusa, Cephalandra indica and Nardostachys jatamansi from Indian subcontinent	CCRUM, Ministry of AYUSH	7,40,000/-	2017

3	Prof. Mohammad	1. Studies on endothelial nitric oxide	SERB-DST	53,55,400	2019
	Mahfuzul Haque	synthase (eNOS) phosphorylation			
		and its consequences on uncoupled			
		NO synthesis, Tetrahydrobiopterin			
		(BH4) recycling and superoxide			
		generation			
		2. Effect of Hypoxia on tissue factor			
		mediated coagulation pathway and	SPARC-MHRD	57 lakhs	2019
		their function in hypoxia induced			
		thromboembolism.			
		3. Effects and Molecular Mechanisms of			
		Cardioprotective Unani drug Khamira	CCRUM	51 lakhs	2024-27
		Abresham on Nitric Oxide (NO)			2024 27
		production, uncoupling and reactive			
		Atherosclerosis			
		Autosciciosis			
		4. Investigating the effects of tyrosine			
		phosphorylations in iNOS in Lung	ICMR	60 lalaha	2025.20
		cancer		ou lakiis	2025-28
		5. Development and evaluation of lipid			
		Ovide Synthese (eNOS) delivery and	ICMR	50 lakhs	2022-25
		its consequences on uncoupled NO			
		synthesis and superoxide generation.			
		1.Nutrient and metabolite profiling of rice	SERB-DST	34,54,000	2018-2021
4	Dr. Meetu Gunta	and wheat growing in arsenic			
•	Di meeta Gapta	contaminated areas of Ballia district UP			
		2. Identification of novel marker to boost			
		iron and vital nutrients in As-stressed rice			
		genotype using multi-nutrient seed priming		38 lakha	2024 2027
		strategy.		JO IAKIIS	2024-2027

5	Dr. Kapil Dev	 Evaluating prognostic significance of Her-2/neu oncogene in the development of colorectal cancer' 'Crosstalk on Autophagic and 	UGC	10, 45,000	2015-2018
		Inhibitory Apoptotic Proteins: As molecules for therapeutic targets in breast cancer cells'	SERB-DST	53,82,960	2016-2020
		 Immunohistochemical expression of Her 2 oncogene in colorectal cancer Endemic Fluorosis: Role of oxidative 	IRA-JMI –UGC	1,00,000	2014-2015
		stress as a causative factor for Skeletal Fluorosis' in collaboration with A.I.I.M.S. New Delhi.	Ministry of Environment & Forest	22,23,360	2009-2012
6	Dr. Sadaf Fatima	1. Nanontechnology Core Grant	DBT	60 Lakh	2017-2020
		2. Unani Medicine	AYUSH	50 Lakh	2018-2021

7		1.			
8	Dr. Syed Mansoor	1. Integrating effects of Vitamin D and	DBT	44 Lakh	
	Ali	miRNAs in Lung Development and			
		Injury			
		2. Role of miRNAs in lung			
		development and injury" Ramanujan	DST	89 Lakh	
		Fellowship Research Grant			
		3. "Role of mitophagy in macrophage			
		bung injury? Core Research Grant	SERB	54 Lakh	
		4 The role of miPNAs in metabolism	<u>ULIU</u>		
		and macrophage polarization in Non-	ICMR	34 Lakh	
		small cell lung cancer (NSCLC)			
		5. Therapeutic potential of microRNA	ICMD	54 Lalah	
		loaded lipid nanoparticles in neonatal	IUNIK	J4 Lakn	
		and adult acute lung injury			
9	Dr. Abdur Rub	1. Identification of cholesterol biosynthetic			
		pathway regulatory miRNAs during	ICMR-Govt of India	12 Lakh	
		treatment of leishmaniasis (as Principle	ICIVIR-OOVI OF IIIdia	42 Lakii	
		Investigator)			
		2. Screening of pro-apoptotic potential of			
		medicinal plants on leishmania infected and	Ministry of AYUSH	64 Lakh	
		uninfected macrophages (as <i>Principle</i>			
		investigator)			
		3. Effect of cytokines on the expression of			
		cholesterol biosynthetic genes and	Dentt of Colones and		
		macrophages (as <i>Principle Investigator</i>)	Technology, Govt, India	25 Lakh	

4. Role of small G-proteins in <i>Leishmania</i> donovani infection (as Principle Investigator)	Indian National Science Academy, India	15 Lakh
5. Role of G protein coupled receptors (GPCRs) in regulation of macrophage function by <i>Leishmania donovani(as Principle Investigator)</i>	University Grant Commission (UGC), Govt India	6 Lakh
6. Role of sphingosine-1-phosphate in <i>Leishmania donovani</i> infection (as Principle Investigator)	ICMR	Approved (~43 Lakh)
7. Identification of novel inhibitors against UDP-galactopyranose mutase to combat leishmaniasis. (<i>as Principle Investigator</i>)	DSR-Majmaah University, KSA	12000 SAR
8. Targeting polyamine pathway to develop new drug to combat Leishmaniasis (<i>as Co-PI</i>)	Collaborative JMI-DSR, Majmaah University, KSA	12000 SAR