

University of Delhi PhD Applications

We take hippocampus CA1 slices. To half of them we can give calcium at low concentration that is low frequency stimulation. To the other half we can high concentration that is high frequency stimulation for several weeks. (40)	give calcium at
By giving low frequency stimualtion long term depression effect will be produced. Again this group is divided into two. One of the groups is treated with the other group is treated with anti depressant like ketamine and then we study the immunoexpression profile in both the groups. If this method of indu does not work then we can go for the alternatives that are mentioned below later. (60)	n normal saline and ucing depression
Similarly, long term potentiation group can be treated with normal saline and the immunoexpression profile can be analysed. Immunoexpression profile level can be analysed by 1.homogenizing the tissue , islolating the proteins , running the SDS PAGE gel and then performing western blot by using specific antibodies. 2. by performing fluorescent in situ hybridisation(FISH) with the help of specific fluorescent labelled antibodies specific for immunomodulators 3. Cytokine assay 4.Association of the immunomodulators can be checked by performing co immunoprecipitation. Immunoexpression profile at the transcript level can be analysed by performing : 1.Polymerase Chain Reaction 2. cDNA Preparation 3. Microarray (100)	e at the protein
Hippocampal CA1 slices	
Ca at low conc./low freg. electrical stimulation Calcium at high conc./high freg	
Long term depression Long term potentiation	
Normal saline Anti-depressant (e.g. Ketamine) Normal saline	
profile profile profile profile	
Comparative analysis	
Results and conclusions	
Immunotherapy for NDD and NPD patients	
Inducing depression in experimental models is a difficult task and the most crucial step in our experiment . If the above method does not work then we Presb Research Experience, Publications	e can go for other

Food and water deprivation, small temperature reductions, changes of cage mates for atleast two weeks, inducing pain / injury (50)

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ΝΟΤ ΑΡΡΙΙCABLE				
Additional Informatio	n			
NA				
Uploaded File	25			
1. Photo	2. Signature	3. ID Proof	4. D.O.B. Certificate	
Declaration				
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			dayushi Singh (AAYUSHI SINGI	1)



University of Delhi

16BRAC2001916

Application for Ph.D. in Dr. B.R. Ambedkar Centre for Biomedical Research

Amount	Transaction No.	Payment Date
₹ 250	201605272161626	2016-05-27 20:16:49.0

Department Dr. B.R. Ambedkar Centre for Biomedical Research

Programme Ph.D. Centre Choice Delhi

Name	vandana	Category	SC	
Gender	Female	Nationality	Indian	
Date of Birth	09-02-1993	Age (As on 01-05-2016)	23 Years 2 Month 23 Days	
Email	vandana9293@gmail.com	Mother/Father/Guardian's Name	ganga prasad	Your Photo
Mobile	8130944468	University Last Attended	University of Delhi	
Writer Assistance Required	Not Applicable	Postal Address	R-Z-V-7 NANDA BLOCK MAHAVIR ENCLAVE, PAI South West Delhi, Delhi India	, _AM, MEW DELHI- 110045 - 110045 ,
Identity Proof	Aadhar Card	ID Proof No.	682143323490	Passport Not Applicable

Educational Qualification

Examination Passed	Subject/ Stream	Board/ University	Year	Maximum Marks	Marks Obtained	Percentage/CGPA
10+2	Science	CBSE	2010	500	341	68.20
B.Sc (Hons)	BIOMEDICAL SCIENCES	University of Delhi	2013	3500	2335	66.71
M.Sc	BIOMEDICAL SCIENCES	University of Delhi	2015	2400	1582	65.92

Last College Attended:	Last (For	Last Examination Roll Number (For DU Students only):					
National Level Examination	UGC						
Title of Fellowship/Scholarship	Certificate N	o. Date	Fellowship Amount				
CSIR-UGC-JRF	2121530481	2016-07-01	25000				
Other Details	No Fellowship						

Proposed theme and scope of research for M.Phil./Ph.D.

Infectious Disease immunology

Major writings in the field in which you would like to pursue your M.Phil./Ph.D.

Sepsis is a major cause of morbidity and mortality, frequently involving acute lung injury, in hospitalized patients. Sepsis is caused by endotoxins, the LPS cell-wall components of Gram-negative bacteria. LPS, which known pathogen assisted molecular pattern (PAMP) acts as ligand for Toll like recetor 4 (TLR4). LPS on TLR4 binding triggers an innate immune response that is usually protective, however, during endotoxemia this signaling can become hyper-activated and dysregulated, thus causing excessive inflammation and widespread acute organ injury leading to death. Acute Macrophages and neutrophills are the major cellular mediators of inflammation during LPS (TLR4 agonist) induced endotoxemia which upon stimulation leads to activation of transcriptional regulators like NFkB and STAT-3 and release of pro-inflammatory cytokines like IL6 and TNFα. Macrophage activation and infiltration is an energy dependent process and accompanied with a shift to glycolytic metabolism. Targeting the metabolism and the bioenergetics of activated macrophages could be an effective strategy in reducing the severity and damage by the sepsis. 2-DG is a glycolytic inhibitor and an emerging energy restriction mimetic agent (ERMA).

Primary sources/field work, methodology, hypothesis/research, questions and issues in the proposed field of interest. NA

Past Research Experience, Publications

One publication in Liberta Academica entitled as "Pattern Recognition Receptors in Cancer Progression and Metastasis" Additional Information

NA				
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Declaration				
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				Hondoma
				(vandana)



Sin3 is a highly conserved structure from yeast to humans with its 6 highly conserved regions (HCRs). Four of them them are paired alpha-helices (paah) that share structural similarity with helix loop helix dimerisation domain of myc family of TFs. one is histone deacetylase (HDAC)ninteraction domain and the last one is HCR. interestingly, it has not got any DNA bonding domain. it acts as both positive and negative regulators of transcription by interacting with other DNA binding proteins. Sin3A/B and TUMOUR SUPPRESSOR GENES : 1. MAD-MAX COMPLEX RECRUITS Sin 3 to DNA promotor site. sin3 associated to HDAC1/2 causes repression of transcriptional activity of linked VP16 and c-myc transactivation domains.										
2. interaction of sin3/HDAC results in deacetylation and degradation of Myc proteins										
3. its level increases u	nder conditions of stress induce	d by RAS which is an oncoge	ene.							
 4. it is increased under 5. it also interacts with 6. it interacts with BRN 	r conditions of oncogenic stress. I RB family of tumor suppressor. IS1 and inhibits metastasis in se	it is important in increasing it represses the transcriptio everal types of cancer.) stability and trans repressive functions of TP53. on of E2F responsive pro-proliferation genes.							
role of sin 3 has been t want to get some adva to be able to derive be to be high in cancer ce tansformation. strategy:	found to be of tumor suppressor antage of its activity in chemoth nefits from this protein, we nee- Ils and then try to figure out the	in some case and of proto- erapy and cancer. d to find out its interactions e mechanism by which it reg	oncogne in others. this is the biggets challange if we with several proteins whose expressions are found gulates cell proliferation, differentiation or							
1. TO LOOK FOR THE P and other such protein 2. Co-IP of SID contain	RESENCE OF SID (SIN3 BINDING s using protein sequence datab ing proteins with sin3 protein.	G DOMAIN) IN CELL REGULA ase.	TORY PROTEINS LIKE p53, RB, myc, RB, p16, NF-kB							
3. epigenetic changes with sin3.	like acetylation, phosphorylation	n etc. at the site of those ge	nes whose proteins are found to be associated to							
4. mutant type of sin3	associated with a particular can	cer cells type and its differe	ential role in regulation.							
therapy: effect of RNA cells or not and what e	against sin3 in cancerous cells ffect does it has on normal cell	vs naormal cells to see whe analogue.	ther it prevents cancer progression in cancerous							
Past Research Expe	rience, Publications									
One semester disserta AMISFOSTINE ANALOG TWO MONTHS TRAININ "TO STUDY THE AFFINI	tion experience in DRDO, INMAS UE IN RADIATION INDUCED HEM IG EXPERIENCE IN DEPARTMENT TY OF DIFFERENT COLUMN S TC	5 In Mr. Ravi Soni's Lab on Atopoietic Injury". Of Zoology, Du in Proff Wards PMSG Hormone Al	dissertation topic-"TO ESTIMATE THE EFFECTS OF ESOR K. MURLIDHAR'S LAB ON RESEARCH TOPIC ND ANALYSIS OF DATA BY IMMUNOREACTIVITY".							
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			(GEETIKA ARORA)							

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Application for I	Ph.[D. in Dr. B.R. J	Ambed	kar Centi	re for	Biome	dical Res	earch				
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Department Dr. B.	R. Ar	mbedkar Centre I	for Biome	dical Rese	arch			Pr	rogramme P	h.D. C	centre Choice Delh	
Name	priy	vanka rani		Category	y			SC			0	
Gender	Fen	nale		National	ity			Indian			3	
Date of Birth	08-	09-1992		Age (As	on 01-(05-2016	5)	23 Years Days	s 7 Month 24			
Email	twir	nkle9.littlestar@g	gmail.com	Mother/F	Father/	/Guardia	an's Name	jugbir si	ngh	Your	Photo	
Mobile	965	54103081		Universi	tv Last	Attend	led	Universi	ity of Delhi	Tour	11000	
Writer Assistance Required	Not	Applicable		Postal A	ddress	lress			H.NO.1208 SECTOR- OLD VIJAY NAGAR G Ghaziabad, Uttar Pra India		-09 , GHAZIABAD adesh - 201001 ,	
Identity Proof	Vot	er's Identity Carc	ł	ID Proof	No.	0.			80356	Passport Not Applicable		
Educational Qu Examination Pass	alif ed	ication Subject/ Stream	n	Board/ Ur	niversit	ty Year	Maximum	Marks	Marks Obt	ained	Percentage/CGP/	
10+2		Science		CBSE	(2010 600)	447	447 74.50		
B.Sc (Program)		LIFE SCIENCES		University	of Delh	i 2014	350 Bocult A	0 vaited	2161 Docult Aw	2161 61.74		
M.SC		DIOMEDICAL SCI	ENCES	University	or Dem	2010	Result A	walleu	Result Awa	aiteu	Not Applicable	
Last College Atter	nded	l:				Last Exa (For DU	amination Students	Roll Nu only):	mber			
National Level Exa	amir	nation			Not A	plicable	e					
Title of Fellowship	o/Scl	holarship			Certi	ficate N	lo.	Date	Fellow	vship	Amount	
NA					NA			NA NA				
Other Details					No Fe	ellowship)					
Proposed theme a NOT APPLICABLE Major writings in a NOT APPLICABLE Primary sources/f	and s the f	scope of resear field in which y work, methodo	rch for M ou woul blogy, hy	l.Phil./Ph. d like to p vpothesis/	D. oursue resear	your M. ch, que	.Phil./Ph.D stions and). I issues	in the prop	osed	field of interest.	
Past Research Exp NA Additional Inform	oerie atio	ence, Publicatio n	ons									
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NA Uploaded Files	s											

Declaration

I have checked all the entries made by me in the form. Any wrong information given by me will lead to cancellation of my admission and also penal action against me.



(priyanka rani)



Proposed theme and scope of research for M.Phil./Ph.D.

osmolytes and cancer

Major writings in the field in which you would like to pursue your M.Phil./Ph.D.

the major writings include

Hallmarks of cancer

living with water stress evolution of osmolyte systems

40 Years of cancer research

Primary sources/field work, methodology, hypothesis/research, questions and issues in the proposed field of interest.

University of Delhi PhD Applications

cancer cells so far hav microenviornment in c constant selection pres for cancer cells it cons needs to maintain a ce As i have already state trouble in maintaining osmolytes. But all osn originating for the sam is to have an highly eff The idea is that since r cells while maintainig	e been studie ancer. the tu ssure to the c tant cell divis ertain cell volu- ed above the cell volume b nolytes are no te type of car fective osmol normal cells i high toxicity	ed in isolation. it mor microenvior ancer cells chall ion. Uncontrolled ume. tumor microenvio because of high o because o becaus	is only n nment a lenging t d cell div iornment osmolari all cells, ertain vai drastical ot simila givingrise	now that people are as i understand it is them to survive in ir vision is one of the h t constantly stresse ty of the microenvio in my current studie irability in osmolyte ily increases the mo arly stressed as came e to less deadly and	beging t not cond ncreasing nallmarks s out eve proment. es in the acceptat ortality of cer cells I more sp	o appriciate f ucive for nor gly harsh con s of cancer. F the cell retai lab i have rea nce and rege given cance such cocktail pecific types o	the role of the tumor mal cells to grow it pro- ditions. Another impor or cell division to happ cells and thus these of ns its volume by using alized that even cance ction. what i eventuall r cell lines. s may prove atoxic to of cancer therapy	ovides tant factor oen the cell cells have g er cell lines y envision normal
Past Research Expe	rience, Publ	ications						
no								
Additional Informati	on							
NA								
Employment Details								
Employment Type		Full Time		Organization		ACBR	Designation	JRF
From		2015-03-03		Salary		32500		
Uploaded Files								
1. Photo	2. Signatu	ire	3. IC) Proof	4. D	.O.B. Certi	ficate	
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