<u>Curriculum Vitae</u>

1. Name : DR. ARIJIT BHATTACHARYA

2. Correspondence address:

193 NATOON PARA BARUIPUR Kolkata- 700144 West Bengal, INDIA



3. Email(s) and contact number(s): <u>arijbhatta@gmail.com</u>

arijit.bhattacharya@adamasuniversity.ac.in

+919830248166

- 4. Present position held: Associate Professor and HoD, Dept. of Biological Sciences, Adamas University, Kolkata
- 5. Date of Birth: 8th February 1980
- 6. Gender (M/F/T): M
- 7. Whether differently abled (Yes/No): No
- 8. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution 9	% of
				r	marks
1.	B. Sc (Microbiology	2001	Microbiology(H), Physics(G),	University Of Calcutta 6	57.38
	Hons.)		Chemistry (G)		
2.	M. Sc Microbiology	2003	Microbiology	University Of Calcutta 8	30.50
3.	Ph. D	2009	Biochemistry-Molecular	IICB, Kolkata-Jadavpur <mark>N</mark>	JA
			Biology	University	

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Role of Cyclic Nucleotide Mediated Responses in *Leishmania*-infectivity Guide: Dr. Pijush K. Das; Indian Institute of Chemical Biology, Kolkata; Year: 2009

S.No.	Positions held	Name of the Institute	From	То	Pay Scale
1.	IICB, Kolkata	CSIR JRF-SRF Guide: Dr. Pijush K. Das	Aug 2003	July 2008	8000+HRA(INR)
2.	IICB. Kolkata	Project assistant Level-III	Aug 2008	June 2009	14000 consolidated (INR)
3.	Assistant Professor	Presidency College, Kolkata	July 2009	May 2012	15600-39100 (INR)
4.	Assistant Professor	Tripura University, Tripura	May 2012	Feb 2014 (Resigned on Mar 2015)	15600-39100 (INR)
5.	Post-doctoral Fellow	CHUQ-University of Laval, Quebec City, Canada	Feb 2014	Dec 2018	42000/ anum (CAD)
6.	Associate Professor	Adamas University, Kolkata	Jan 2019	Till date	37400-67000 (INR)

10. Work experience (in chronological order).

Total Post-Ph. D experience: 15 yrs.

11. Research area:

a. Resistomics and systems biology of antimicrobial resistance (Parasite and bacteria)

- b. Evolution of signal transduction in lower eukaryotes (trypanosomatids)
- c. Repurposing of drugs against pathogens
- 12. Teaching preferences:
 - a. Microbial genetics and genomics
 - b. Molecular Biology
 - c. Bioinformatics
 - d. Infection biology and host-microbe interaction
 - e. Microbial metabolism
- 13. Research guidance:
 - Ph. D: 5 (completed:1; On-going:4) Master's thesis: 15(completed).

14. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

Sl.No Name of Award	Awarding Agency	Year
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1.	Research Excellence	Adamas University	2020
2.	Inspired Teacher	Tripura University	2013
3.	NET	CSIR-UGC	2003
4.	State Level Eligibility Test	WBCSC	2003
5.	Research excellence	ADAMAS UNIVERSITY	2020

15. Publications:

S1. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Acharya K, Shaw S, Bhattacharya SP, Biswas S, Bhandary S, Bhattacharya A.	Pigments from pathogenic bacteria: a comprehensive update on recent advances.	World J Microbiol Biotechnol. (4.2)	2024 Jul 20;40	9:270	2024
2.	Bhattacharjee A, Bagchi A, Sarkar S, Bawali S, Bhattacharya A, Biswas A.	Repurposing approved protein kinase inhibitors as potent anti- leishmanials targeting Leishmania MAP kinases.	Life Sci (6.0)	2024 Aug 15	351:122 844	2024
3.	Dhara SR, Saha R, Baildya N, Acharya K, Bhattacharya A, Ghosh K.	New Cyanostyrylcopillar[5]arene Derivative: Synthesis, Photophysical Study, Chromogenic Detection of Aliphatic Amines, and Biofilm- Antibiofilm Activity.	ACS Appl Mater Interfaces. (10.3)	16(6):	7275- 7287	2024
4.	Acharya K, Borborah S, Chatterjee A, Ghosh M, Bhattacharya A.	A comprehensive profiling of quorum quenching by bacterial pigments identifies quorum sensing inhibition and antibiofilm action of prodigiosin against Acinetobacter baumannii.	Arch Microbiol. (2.8)	31;205(12): 364.		2023
5.	Bhakta S, Bhattacharya A.	In silico evolutionary and structural analysis of cAMP response proteins	Arch Microbiol. (2.8)	Mar 20;205(4):12 5.		2023

		(CARPs) from				
		Leishmania major.				
6	Bhattacharva	Ouorum sensing	Fitoterania (3.2)	Apr		2023
	SP. Karmakar S.	inhibition and	- 100 cor apra (01 <u>–</u>)	12:105508.		_0_0
	Acharva K.	antibiofilm action of				
	Bhattacharva A.	triterpenoids: An				
	Jiideedaaliga	updated insight.				
7	Mitra I	Present status with	Curr Res	2023 Jul		2023
	Bhattacharva A.	impacts and roles of	Pharmacol Drug	15:5:100162		2020
	Paul .I	miRNA on Soil	Discov	10,01100102		
	Anisuzzaman.	Transmitted		•		
		Helminthiosis				
		control: A review.				
8.	De A.	Exploring the	In Silico	2023 Apr		2023
	Bhattacharva S.	pharmacological	Pharmacol.	28:11(1):12		_0_0
	Debrov B.	aspects of natural				
	Bhattacharva A.	phytochemicals				
	Pal K.	against SARS-CoV-2				
		Nsp14 through an in				
		silico approach.				
9.	Mitra A. Acharva	Evolutionary analysis	Arch Microbiol.	Jul	493. 14	2022
	K. Bhattacharva	of globin domains	(2.8)	204(8):493	pages	
	A. 2022	from kinetoplastids.	()	()	1 0	
10.	Mukherjee P.	PDE4 inhibitor	J Cell Biochem.	2022 Sep 5.	epub	2022
	Bagchi A.	eliminates breast	(4.0)	(epub ahead	ahead of	
	Banerjee A, Roy	cancer stem cells via	()	of print)	print	
	H, Bhattacharya	noncanonical		1 /	-	
	A, Biswas A,	activation of mTOR.				
	Chatterji U.					
11.	Bhattacharya A,	Editorial to:	Front. Cell. Infect.	doi:	doi:	2022
	Fernandez-	Signaling in Stress	Microbiol. (5.8)	10.3389/fci	10.3389/f	
	Prada CF,,	Sensing and		mb.2022.96	cimb.202	
	Alonso GD and	Resistance in		2047	2.962047	
	Biswas A.	Parasitic Protozoa				
12.	Pradhan S,	Activation of TLR-	Heliyon. (3.8)	2022 Jul	e09868.	2022
	Snehlata,	pathway to induce		3;8(7)		
	Manna D,	host Th1 immune				
	Karmakar S,	response against				
	Singh MK,	visceral				
	Bhattacharya A,	leishmaniasis:				
	Mukherjee B,	Involvement of				
	Paul J.	galactosylated-				
		flavonoids.				
13.	Bhattacharya A,	Combined gene	PLoS Negl Trop	APR27 2021	15(4). :e0	2021
	Leprohon P,	deletion of	Dis. (IF:4.5)		009377	
	Ouellette M.	dihydrofolate				
		reductase-				
		thymidylate synthase				
		and pteridine				
		reductase in				

		Leishmania				
		infantum.				
14.	Roy G, Bhattacharya A, Leprohon P, Ouellette M.	Decreased glutamate transport in acivicin resistant Leishmania tarentolae.	PLoS Negl Trop Dis. (IF:4.5)	Dec16 2021	15(12):e0 010046	2021
15.	Mandal, S., Chakrabarty, D., Bhattacharya, A. et al.	miRNA regulation of G protein-coupled receptor mediated angiogenic pathways in cancer.	The Nucleus (Springer Nature)	July 2021		2021
16.	Barman N, De A, Paul J, Haldar S, Bhattacharya A, Pal K.	Strategy to Configure Multi-epitope Recombinant Immunogens with Weightage on Proinflamatory Response using SARS-CoV-2 Spike Glycoprotein (S- protein) and RNA- dependent RNA Polymerase (RdRp) as Model Targets.	J Pure Appl Microbiol.	Dec2021	2022;16(1):281-295.	2021
17.	Paul Bhattacharya S, Mitra A, Bhattacharya A*, Sen A* (*Co- corresponding)	Quorum quenching activity of pentacyclic triterpenoids leads to inhibition of biofilm formation by Acinetobacter baumannii.	Biofouling (IF 2019: 2.4)	36 (8)	922-937	2020
18.	Paul Bhattacharya S, Bhattacharya A, Sen A	A comprehensive and comparative study on the action of pentacyclic triterpenoids on <i>Vibrio cholerae</i> biofilms	Microbial Pathogenesis (IF 2019: 2.9)	149	149:1044 93	2020
19.	Saha A, Bhattacharjee A, Vij A, Das PK, Bhattacharya A*, Biswas A*. (*Co- corresponding)	Evaluation of Modulators of cAMP- Response in Terms of Their Impact on Cell Cycle and Mitochondrial Activity of Leishmania donovani.	Front Pharmacol. (IF* 2019: 4.2)	11	782	2020
20.	Bhattacharya A, Corbeil A, do Monte-Neto RL,	Of Drugs and Trypanosomatids: New Tools and	Genes (Basel). (IF 2019: 3.8)	11(7)	E722	2020

	Fernandez-	Knowledge to Reduce				
	Prada C.	Bottlenecks in Drug				
		Discovery.		. .		
21.	Marc Ouellette,	Exploiting	EMBO reports	21	E50249	2020
	Arıjıt	Antimicrobial	(IF 2019: 6.5)			
	Bhattacharya	Resistance: Better				
		knowledge of				
		resistance				
		mechanisms can				
		inform the search for				
		and development of				
		new antibiotics				
00		(essay)		P	50.61	2020
22.	Bhattacharya A,	New insights in the	Microbial Cell	7	59-61	2020
	Bigot S,	mode of action of	(11:5.6)			
	Paumananan DV Maalahamiaa					
	PK, Mukheljee	ahomiool				
	A, COEIIIO A,	mutogenesis screens				
	Papadopoulou	coupled to pevt-				
	R Quellette M	generation				
		sequencing				
23	Bhattacharva A	Coupling chemical	Nature	10	5627	2019
20.	Leprohon P.	mutagenesis to next	Communications	10	(article	2017
	Bigot S.	generation	(IF 2019: 12.2)		no.)	
	Padmanabhan	sequencing for the	()		,	
	PK, Mukherjee	identification of drug				
	A, Roy G,	resistance mutations				
	Gingras H,	in Leishmania.				
	Mestdagh A,					
	Papadopoulou					
	B, Ouellette M.					
24.	Bhattacharya A,	Genomewide	mSystems.	4	NA	2019
	Sharma M,	Analysis of Mode of	(IF 2019: 6.5)			
	Pakkinathan C,	Action of the S-				
	Rosen BP,	Adenosylmethionine				
	Leprohon P,	Analogue Sinefungin				
	Ouellette M.	in Leishmania				
05	0	intantum.	A	60	.00001	0010
25.	Gingras H,	Gain and loss of	Antimicrob Agents	63	e02381-	2019
	Patron K,	iunction screens	Chemother.		18.	
	Bhattacharya A,	couplea to next	(11 2019: 4.8)			
	$\begin{array}{cc} \text{Lepronon} & P, \\ Oppose & V \end{array}$					
		sequencing IOr				
		antion and resistance				
		studies				
		Streptococcus				
		nneumoniae				
26.	Bhattacharva A	New insights with	EBioMedicine.	37	13-14.	2018
L	,					

	Ouellette M.	miltefosine	(IF 2018: 6.8)			
		unresponsiveness in	(
		Brazilian Leishmania				
		infantum isolates.				
		(commentary)				
27.	Biswas A.	Role of leishmanial	Int J Biochem Cell	86	1-13	2017
	Bhattacharva A.	acidocalcisomal	Biol.			
	Vii A. Das PK.	pyrophosphatase in	IF 2014: 4.0			
	5 /	the cAMP				
		homeostasis in				
		phagolysosome				
		conditions required				
		for intra-macrophage				
		survival.				
28.	Vij A, Biswas A.	A soluble	Int J Biochem Cell	57	197-206	2014
	Bhattacharya A	phosphodiesterase in	Biol.			
	Das PK.	Leishmania donovani	IF 2014:4.0			
		negatively regulates				
		cAMP signaling by				
		inhibiting protein				
		kinase A through a				
		two way process				
		involving catalytic as				
		well as non-catalytic				
		sites.				
20	Dhottochomia A	Identification of a	Mol Microbiol	00	548-64	2012
29.	Dhattacharya A,	fuctilitation of a		00	570-07.	2012
29.	Biswas A, Das	protein kinase A	(IF 2012:5.5)	00	570-07.	2012
29.	Biswas A, Das PK.	protein kinase A regulatory subunit	(IF 2012:5.5)	03	5-6-0	2012
29.	Blattacharya A, Biswas A, Das PK.	protein kinase A regulatory subunit from Leishmania	(IF 2012:5.5)	00	576-07.	2012
29.	Blattacharya A, Biswas A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in	(IF 2012:5.5)	00	570-07.	2012
29.	Bhattacharya A, Biswas A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis	(IF 2012:5.5)	00	540-04.	2012
۷ ۶ .	Biswas A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of	(IF 2012:5.5)	00	540-04.	2012
۷y.	Bhattacharya A, Biswas A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy.	(IF 2012:5.5)	00		2012
29. 30.	Biswas A, Das PK. Biswas A,	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP	(IF 2012:5.5) Mol Biol Int.	2011	2011:782	2012
29. 30.	Biswas A, Das PK. Biswas A, Bhattacharya A,	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the	(IF 2012:5.5) Mol Biol Int.	2011	2011:782 971	2012
29. 30.	Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and	(IF 2012:5.5) Mol Biol Int.	2011	2011:782 971	2012
29. 30.	Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the	(IF 2012:5.5) Mol Biol Int.	2011	2011:782 971	2012
30.	Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite,	(IF 2012:5.5) Mol Biol Int.	2011	2011:782 971	2012
29. 30.	Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania	(IF 2012:5.5) Mol Biol Int.	2011	2011:782 971	2012
30.	Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani.	(IF 2012:5.5) Mol Biol Int.	2011	2011:782 971	2012
30. 31.	Biswas A, Das PK. Biswas A, Das PK. Biswas A, Das PK. Biswas A,	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani.	Mol Microbiol. (IF 2012:5.5) Mol Biol Int. Eur J Immunol.	2011 41	2011:782 971 992-	2012 2011 2011
30.	Biswas A, Das PK. Biswas A, Das PK. Biswas A, Das PK. Biswas A, Bhattacharya A,	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3-	Mol Biol Int. Mol Biol Int. Eur J Immunol. (IF 2011:4.8)	2011 41	2011:782 971 992- 1003.	2012
29. 30. 31.	Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK. Biswas A, Bhattacharya A, Kar S, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3- dependent IL-4Ra is	Mol Microbiol. (IF 2012:5.5) Mol Biol Int. Eur J Immunol. (IF 2011:4.8)	2011	2011:782 971 992- 1003.	2012 2011 2011
30.	Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK. Biswas A, Bhattacharya A, Kar S, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3- dependent IL-4Ra is required for	(IF 2012:5.5) Mol Biol Int. Eur J Immunol. (IF 2011:4.8)	2011	2011:782 971 992- 1003.	2012
30. 31.	Biswas A, Das PK. Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK. Biswas A, Bhattacharya A, Kar S, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3- dependent IL-4Ra is required for induction of arginase	Mol Biol Int. Eur J Immunol. (IF 2012:5.5)	2011 41	2011:782 971 992- 1003.	2012 2011 2011
29. 30. 31.	Biswas A, Das PK. Biswas A, Das PK. Bhattacharya A, Das PK. Biswas A, Bhattacharya A, Kar S, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3- dependent IL-4Ra is required for induction of arginase 1 in visceral	Mol Biol Int. Mol Biol Int. Eur J Immunol. (IF 2011:4.8)	2011	2011:782 971 992- 1003.	2012
30.	Biswas A, Das PK. Biswas A, Das PK. Biswas A, Bhattacharya A, Das PK. Biswas A, Bhattacharya A, Kar S, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3- dependent IL-4Ra is required for induction of arginase 1 in visceral leishmaniasis.	(IF 2012:5.5) Mol Biol Int. Eur J Immunol. (IF 2011:4.8)	2011 41	2011:782 971 992- 1003.	2012
30. 31. 32.	Biswas A, Das PK. Biswas A, Das PK. Bhattacharya A, Das PK. Biswas A, Bhattacharya A, Kar S, Das PK.	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3- dependent IL-4Ra is required for induction of arginase 1 in visceral leishmaniasis. Role of a	(IF 2012:5.5) Mol Biol Int. Eur J Immunol. (IF 2011:4.8) Free Radic Biol	2011 41 47	2011:782 971 992- 1003. 1494-506	2012 2011 2011 2009
 29. 30. 31. 32. 	Biswas A, Das PK. Biswas A, Das PK. Biswas A, Das PK. Biswas A, Bhattacharya A, Kar S, Das PK. Bhattacharya A, Baswas A, Das	protein kinase A regulatory subunit from Leishmania having importance in metacyclogenesis through induction of autophagy. Role of cAMP Signaling in the Survival and Infectivity of the Protozoan Parasite, Leishmania donovani. Expression of IL-10- triggered STAT3- dependent IL-4Ra is required for induction of arginase 1 in visceral leishmaniasis. Role of a differentially	Mol Microbiol. (IF 2012:5.5) Mol Biol Int. Eur J Immunol. (IF 2011:4.8) Free Radic Biol Med. (IF 2009:5.6)	2011 41 47	2011:782 971 992- 1003. 1494-506	2012 2011 2011 2009

		phosphodiesterase in regulating the induction of resistance against oxidative damage in Leishmania					
22		donovani. Dele ef intresellerter	Ence Dedie	D:-1	4.4	770.04	0000
33.	Bhattacharya A,	Role of intracellular	Free Radic	B101	44	779-94	2008
	Biswas A, Das	cAMP in	Med.				
	PK.	differentiation-	(IF 2008:5.6)				
		coupled induction of					
		resistance against					
		oxidative damage in					
		Leishmania					
		donovani.					

*approximate value

16. Books/Reports/Chapters/General articles etc.

Sl.No	Title	Author's Name	Publisher	Year of Publication
1	Edited Book: Pathobiology of Parasitic Protozoa: Dynamics and Dimensions	Editors: Budhaditya Mukherjee, Arijit Bhattacharya, Rupkatha Mukhopadhyay, Bruno Guedes Alcoforado Aguiar	Springer Nature	2023
2	Cognitive impairment in parasitic protozoan infections	Neloy Chakraborty, Sabyasachi Baksi and Arijit Bhattacahrya	Springer Nature	2023
3	Vaccine development through Reverse Vaccinology using Artificial intelligence and machine learning approach: Tackling global pandemic through scientific and global tools (pg33-49)	Swarnav Bhakta, Suvendu Choudhury, Joydeep Paul and Arijit Bhattacharya	ELSEVIER	2021
4	The Host Pathogen Interaction and Immunomodulation During Leishmaniasis.	Bhattacharjee S and Bhattacharya A.	Landes Bioscience and Springer Science	2013

	Book: Microbial					
	Pathogenesis:					
	Infection and					
	Immunity, edited					
	by Uday Kishore					
	and Annapurna					
	Nayak					
5	Possible B:	Biswas	А,	A11	India	2009
	mechanism of B	Bhattacharya A, D)as	Congress	of	
	neutralizing P.	P. K.		Cytology	and	
	macrophage			Genetics		
	oxidative damage					
	by Leishmania					

17. Professional acquaintance:

Antimicrobial resistomics, Whole genome sequencing and analysis, gene expression analysis, functional genomics and gene editing, proteomic analysis (interactome), targeted and untargeted metabolomics, cloning and expression, drug profiling, Molecular modeling, docking, Immunological and cell biological assays, FACS etc.

- 18. Oral Presentation (Majors):
 - a. Divulging antimicrobial resistance in parasites through multiomics RUSA, Kalyani University Kalyani University (National) 2022
 - b. Application of artificial intelligence and machine learning in drug designing and vaccine development: aiming antimicrobial resistance National Level Satellite Symposium Asutosh College (in collaboration with RAMAKRISHNA MISSION VIDYAMANDIRA, BELUR) National (2024)
 - c. Mécanismes de chimiorésistance chez les protozoaires ogy Parasitologie cellulaire et moléculaire University Montreal, Course on parasitol International (2022)
 - d. Leucine Carboxyl Methyltransferase (LCMT) from Leishmania infantum and its interactome. 2020 Molecular Parasitology Meet2020 MPM International (2021)
 - e. cAMP Response Proteins (CARPs) from Leishmania: in silico Evolutionary and structural analysis MPM2021 MPM International (2020)
 - f. Deciphering the interactome of Leucine Carboxyl Methyltransferase (LCMT) from Leishmania Protistology, 2021 International Society for protistology International (2021)
 - g. Systemic Approach Against Antimicrobial Resistance: Exploring Bacterial Pigments Bionext, 2022 Adamas University International (2022)
 - h. Teaser talk: Molecular Parasitology Meet 2017 (MBL, Woodshole MA): Chemical Muatgenesis Coupled to Next Generation Sequencing for Finding

Mode of Action and Resistance genes of Drugs in the Parasite Leishmania.

- i. Presented a popular talk on Synthetic Biology in Tripura University (2011).
- j. Invited talk in Ramkrishna Mission Vidyamandir, Belur in National symposium (2010) in Unicellular differentiation and signal transduction.
- k. Presented in Indian Cell Biology Symposium, BHU, Banaras (2008) on Cyclic Nuleotide Signaling in *Leishmania*.

19. Poster Presentation (Majors):

a. Gordon Research Conference on DRUG RESISTANCE 2018 (Bryant University, Smithfield, RI), Presented poster on mutational networks for drug resistance in *Leishmania*

b. Molecular Parasitology Meet 2017 (MBL, Woodshole): Chemical mutagenesis in Leishmania.

b. Molecular Parasitology Meet 2020 (virtual): Adenylate cyclase associate proteins in leishmania: deciphering the interactome

c. Molecular Parasitology Meet 2021(MBL, Woodshole MA-virtual): cAMP Response Proteins (CARPs) from Leishmania: in silico Evolutionary and structural analysis.

d. Poster presentation on phosphorylation mediated regulation of cAMP-phosphodiestearse action in Leishmania in CHPI symposium, McGill University, Montreal, Canada.

e. Poster on cAMP and resistance against oxidative stress in *Leishmania donovani* in IICB-golden Jubilee Symposium

f. Poster on cAMP signaling in *Leishmania*-macrophage interaction in AICBC symposium, Delhi University, 2007

S1.	Title	Funding	File Number	Amount	PI/	Duratio	Fro	То
No		body			Co	n	m	
					-PI			
1.	Exploring	ICMR	AMR/Adho	27.66 lks	PI	3 yrs	02-	Till
	Antimicrobial		c/284/202	(yr1)			01-	dat
	Combination Efficacy		2-ECD-II	(Total:			202	e
	Network through		Project ID:	46.7 lks)			3	
	Profiling Collateral		2021-14059					
	Sensitivity, Cross-							
	Resistance and							
	Tolerance Trade-Offs							
	during Evolution of							
	Antibiotic Resistance							
	in Acinetobacter							
	baumannii.							
2.	Systemic exploration	SERB	SRG/2020/	25,49,80	PI	2 yrs	22-	21-
	of quorum sensing		000720	0		-	01-	01-
	regulated bacterial						202	202
	pigments against						1	3
2.	in Acinetobacter baumannii. Systemic exploration of quorum sensing regulated bacterial pigments against	SERB	SRG/2020/ 000720	25,49,80 0	PI	2 yrs	22- 01- 202 1	21- 01- 202 3

19. Projects handled:

	antimicrobial responsiveness for developing novel translational alternative to combat antibiotic resistance.							(co mpl ete d)
3.	Comprehensive Understanding of Modulation of Macrophage Activity During Phagocytosis of Developing Bacterial Biofilms: from infection to translation	Adamas Universit y- SEED grant	AU/ REG.2019- 20/12-008	2 lks	PI	2 yrs	26- 02- 202 1	25- 02- 202 3 (co mpl ete d)
4.	CRISPR-Cas based rapid diagnostics of Miltefosine susceptible and resistant strains of Leishmania donovani from asymptomatic and post kala azar dermal leishmaniasis using invasive and non- invasive approach.	ICMR	6/9- 7(269)/KA/2 021/ECD-II	21.79 lks (yr 1)	Co -PI	3 yrs	25- 02- 202 1	Till dat e
5.	Deciphering the enigmatic host-lysis mechanism of transposable phage Mu and its application towards the development of bacterial antimicrobial resistance (AMR) combating strategies	SERB	CRG/2022 /006465	57.61 lks	Co -PI	3 yrs	17- 08- 202 3	San ctio ned
6.	Effect of phytochemicals on formation and dispersal of bacterial biofilms	UGC	PSW- 038/11-12	2 lks	Co -PI	2 yrs	03- 08- 11	02- 08- 13 (co mpl ete d)

20. Professional member:

Contributing member American Society of Microbiology Lifemember: Society of Biological Chemists, India Full member: Applied Microbiology International 21. Journal affiliations (as reviewer and editor):

PLOS Neglected Tropical Diseases, iScience, Frontiers in Pharmacology, Infection, genetics and evolution, PLOSone, Access Microbiology (Microbiology Society, UK), International journal of Biological Macromolecules, Journal of Applied Microbiology, Frontiers in Microbiology, Drug design and development.

Editor of a special issue in Frontiers in Cellular and Infection Microbiology