


SamartheGov

Title	Dr.	First Name	Vijay	Last Name	Verma	
Designation	Assistant Professor					
Department	Department of Microbiology SDC					
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Employment Info

Employee Type	Nature Of Employment
Teaching	Permanent

Educational

Degree	Institution	Year
PG	CCS University Meerut UP	2007
UG	CCS University Meerut, UP	2004
HSC	Uttar Pradesh Board (UP Board)	2001
SSC	Uttar Pradesh Board (UP Board)	1999
Ph.D. - Functional analysis of N-terminus and C-terminus domain(s) of Helicobacter pylori DnaB and its interacting partner(s)	JNU	

Qualifications			
Examination Name	Conducted By	Date of Passing	
NET	CSIR-UGC	2008-12-21	
OTHER	ICMR, New Delhi	2008-07-13	
Fellowship			
Fellowship Name	Fellowship Body	Level	
JRF	ICMR	National	
SRF	ICMR	National	
Dr. D.S. Kothari Postdoctoral Fellowship	UGC	National	
Teaching experience inside the Institution			
Designation	Institution	Duration From	Duration To
Research Associate	JNU, New Delhi, India	2013-08-01	2013-12-31
UGC Dr. D.S. Kothari Post-Doctoral Fellow	JNU, New Delhi, India	2014-01-01	2016-12-31
Assistant Professor	Central University of Rajasthan, Kishangarh, Rajasthan	2017-01-18	2021-08-17
Assistant Professor	University of Delhi South Campus, New Delhi 110021	2021-08-18	2022-09-01
Research Guidance			
PhD scholars under Supervision	Awarded PhD	Submitted	
2			
M.Phil Scholars – Under Supervision	Awarded Degree	Submitted	
	3		

Research Publications							
Article Name	Publication Type	Journal Name	ISSN No	Volume	Year	URL	DOI
Helicobacter pylori chromosomal DNA replication: current status and future perspectives.	Research Papers in Peer Reviewed Journals	FEBS Lett	0014-5793	585(1)	2011	https://doi.org/10.1016/j.febslet.2010.11.018	https://doi.org/10.1016/j.febslet.2010.11.018
DNA binding activity of Helicobacter pylori DnaB helicase: the role of N-terminal domain in modulating DNA binding activities	Research Papers in Peer Reviewed Journals	FEBS J.	1742-464X	279(2)	2011	https://doi.org/10.1111/j.1742-4658.2011.08418.x	https://doi.org/10.1111/j.1742-4658.2011.08418.x
Intracellular locations of replication proteins and the origin of replication during chromosome duplication in the slow growing human pathogen Helicobacter pylori	Research Papers in Peer Reviewed Journals	J. Bacteriol	0021-9193	196(5)	2014	https://doi.org/10.1128/JB.01198-13	https://doi.org/10.1128/JB.01198-13
Crystal structure and mode of helicase binding of the C-terminal domain of primase from Helicobacter pylori	Research Papers in Peer Reviewed Journals	J. Bacteriol	0021-9193	195(12)	2013	https://doi.org/10.1128/JB.00091-13	https://doi.org/10.1128/JB.00091-13
Modulation of the enzymatic activities of replicative helicase (DnaB) by interaction with Hp0897: A possible mechanism for helicase loading in Helicobacter pylori	Research Papers in Peer Reviewed Journals	Nucleic Acids Research	0305-1048	44(7)	2016	https://doi.org/10.1093/nar/gkw148	https://doi.org/10.1093/nar/gkw148

Targeting β -clamp in <i>Helicobacter pylori</i> with FDA approved drugs yields micromolar inhibition by diflunisal	Research Papers in Peer Reviewed Journals	FEBS Lett	1873-3468	591(15)	2017	https://doi.org/10.1002/1873-3468.12734	https://doi.org/10.1002/1873-3468.12734
Screening of <i>E. coli</i> β -clamp inhibitors revealed that they inhibit <i>Helicobacter pylori</i> with more efficiency: Structural and functional studies	Research Papers in Peer Reviewed Journals	Antibiotics	2079-6382	7(1)5	2018	https://doi.org/10.3390/antibiotics7010005	https://doi.org/10.3390/antibiotics7010005
<i>Helicobacter pylori</i> shows asymmetric and polar cell divisome assembly associated with DNA replisome	Research Papers in Peer Reviewed Journals	FEBS J.	1742-464X	285(13)	2018	https://doi.org/10.1111/febs.14499	https://doi.org/10.1111/febs.14499
GH10 XynF1 and Xyn11A: the predominant xylanase identified in the profiling of extracellular proteome of <i>Aspergillus oryzae</i> LC1	Research Papers in Peer Reviewed Journals	Annals of Microbiology	1590-4261	68(11)	2018	https://doi.org/10.1007/s13213-018-1378-3	https://doi.org/10.1007/s13213-018-1378-3
Unravelling the factors and mechanism involved in persistence: host-pathogen interactions in <i>Helicobacter pylori</i>	Research Papers in Peer Reviewed Journals	Journal of Cellular Biochemistry	1097-4644	120(11)	2019	https://doi.org/10.1002/jcb.29201	https://doi.org/10.1002/jcb.29201
Structural vaccinology approach to investigate the virulent and secretory proteins of <i>Bacillus anthracis</i> for devising Anthrax next-generation vaccine	Research Papers in Peer Reviewed Journals	Journal of Biomolecular Structure and Dynamics	0739-1102	38(16)	2019	https://doi.org/10.1080/07391102.2019.1688197	https://doi.org/10.1080/07391102.2019.1688197
<i>Helicobacter pylori</i> helicase loader protein Hp0897 shows unique functions of N- and C-terminal regions	Research Papers in Peer Reviewed Journals	Biochem J.	0264-6021	476(21)	2019	https://doi.org/10.1042/BCJ20190430	https://doi.org/10.1042/BCJ20190430

Cloning, expression and characterization of a thermo-alkali-stable xylanase from <i>Aspergillus oryzae</i> LC1 in <i>Escherichia coli</i> BL21 (DE3)	Research Papers in Peer Reviewed Journals	Protein Expression and Purification	1046-5928	168(2020)	2019	https://doi.org/10.1016/j.pep.2019.105551	https://doi.org/10.1016/j.pep.2019.105551
Receptor-ligand based molecular interaction to discover adjuvant for immune cell TLRs to develop next-generation vaccine	Research Papers in Peer Reviewed Journals	International Journal of Biological Macromolecules	0141-8130	152	2020	https://doi.org/10.1016/j.ijbiomac.2020.02.297	https://doi.org/10.1016/j.ijbiomac.2020.02.297
High throughput and comprehensive approach to develop multi-epitope vaccine against minacious COVID-19.	Research Papers in Peer Reviewed Journals	European Journal of Pharmaceutical Sciences	0928-0987	151(2020)	2020	https://doi.org/10.1016/j.ejps.2020.105375	https://doi.org/10.1016/j.ejps.2020.105375
A comprehensive approach to discover Toxin-Antitoxin systems from human pathogen <i>Helicobacter pylori</i> : A poison and its antidote encapsulated in the genome	Research Papers in Peer Reviewed Journals	Life Sciences	0024-3205	288(2022)	2022	https://doi.org/10.1016/j.lfs.2021.120149	https://doi.org/10.1016/j.lfs.2021.120149
Current status of pesticide effects on environment, human health and its eco-friendly management as bioremediation: A comprehensive review	Research Papers in Peer Reviewed Journals	Front. Microbiol	1664-302X	13:962619	2022	https://doi.org/10.3389/fmicb.2022.962619	https://doi.org/10.3389/fmicb.2022.962619

Research Projects

Title of the Project	Project Type	Year Of Sanction	Output	Start Date	End Date
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Identification and Functional Characterization of Novel Membrane/Secretory Proteins in Helicobacter pylori Responsible for Host-pathogen Cross Talk and Pathogenesis	Minor	2017	We have cloned and analyzed the Hp0033 and Hp1457 gene of human pathogen H. pylori.	2017-09-20	2019-09-19
Characterization of Membrane/Secretory Proteins in Helicobacter pylori: Mystery of Bacterial Persistent Infection (An Interphase of Host-Pathogen Interaction)	Major	2017	In Progress	2017-09-01	2023-08-31
Unravelling the Mystery of Bacterial Persistent Infection: Genome-wide Identification and characterization of Toxin-Antitoxin systems of Helicobacter pylori	Major	2021	On going	2021-10-14	2024-10-13
Screening of antimicrobial peptides (AMPs) by targeting various important pathways to combat Helicobacter pylori infection	Minor	2021	Ongoing	2021-10-29	2022-03-31
Professional development programmes					
Title of the Programme	Sponsoring Institution	Organising Institution	Association as	type	
Four weeks induction training program	Pandit Madan Mohan Malviya National Mission on teachers and teaching (PMMMNMTT), Govt. of India	Teaching learning centre, Central University of Rajasthan	Organising	Orientation Programme	
Ten Days Online Faculty Development Program on Teaching-Learning and Assessment for Faculty Members of HEIs	Pandit Madan Mohan Malviya National Mission on teachers and teaching (PMMMNMTT), Govt. of India	Teaching learning centre, Central University of Rajasthan	Attending	Faculty Development Programmes	

One-Week Online Faculty Development Programme on "Imparting Online Teaching-Learning Methodology During COVID-19 Pandemic"	IIT Guwahati in association with IQAC, B.H. College, Howly, and SkillGym(OPC) Pvt. Ltd	E&ICT Academy IIT Guwahati	Attending	Faculty Development Programmes
Five Days Workshop on Teaching Learning Evaluation for Faculty Members of HEIs	Pandit Madan Mohan Malviya National Mission on teachers and teaching (PMMMMNMTT), Govt. of India	Teaching learning centre, Central University of Rajasthan	Attending	Refresher Program
Four weeks induction training program	Pandit Madan Mohan Malviya National Mission on teachers and teaching (PMMMMNMTT)	Teaching learning centre, Central University of Rajasthan	Attending	Orientation Programme
Honour And Awards				
Name of the Award	Name of the Awarding Body	Award Category	Level	Date of Award
DST-INSPIRE faculty award	Department of Science & Technology (DST) Govt. of India	Research	National	2017-02-14
AMI-Young Scientist Award	Association of Microbiologists of India (AMI)	Research	National	2019-10-20
EMBO Travel Grant	EMBL Advanced Training Centre, Meyerhofstraße 1, Heidelberg, 69117, Germany	Research	International	2020-02-26
RNA Society Fellowship	EMBL Advanced Training Centre, Heidelberg, Germany	Research	International	2020-10-07
Foreign Translations				
Published As	Title	Author	Published Date	
Contribution To MoU				
Collaborating Agency	Titlr of MoU	Date of Entering the MoU	Duration of the MoU	
Association of Microbiologist of India (AMI)	Society Membership	2019-12-01	240	
Biotech Research Society, India (BRSI)	Society Membership	2018-12-01	120	

Society of Biological Chemist, India (SBC-India)

Society Membership

2012-12-01

120

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