Sri Venkateswara College

(University of Delhi)
Benito Juarez Road, New Delhi - 110021
(Phone No. - 011-2411 2196 : Email - principal@svc.ac.in)

Print Date : 24-08-2026

1. Personal Profile

Title: **Dr.** First Name: **VANDANA** Last Name: **MALHOTRA**

Designation: **ASSOCIATE PROFESSOR** Mobile No. **----------**

Phone No. (Office) **----------** Phone No. (Residence): **----------**

Email: **vandana.malhotra@svc.ac.in** Webpage: **----------**

Facebook: ---------- Twitter: ----------

LinkedIn: ---------- Instagram: ----------

Youtube: ---------- Research Gate Link: ----------

Google Scholar Link: ----------

Address: **----------**

2. Educational Qualifications

Degree/ Certification	Institution	Year
B.Sc	Daulat Ram College, University of Delhi	1993
M.Sc	Madurai Kamaraj University	1995
PhD	All India Institute of Medical Sciences, New Delhi	2002
NET/JRF	NA	1995
GATE score	NA	1996
ARSB NET JRF	Na	1995

3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
ADMINISTRATIVE ASSIGNMENTS	MEMBER	HOSTEL COMMITTEE Sri Venkateswara College University of Delhi	01.Aug.2023 - 08.Oct.2025	

ADMINISTRATIVE ASSIGNMENTS	MEMBER	PLACEMENT CELL Sri Venkateswara College University of Delhi	01.Jul.2023 - 30.Jun.2024	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	NIRF Sri Venkateswara College University of Delhi	01.Jul.2024 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	RESEARCH COMMITTEE Sri Venkateswara College University of Delhi	01.Jul.2023 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	OTHERS	DEPARTMENT OF BIOCHEMISTRY Sri Venkateswara College University of Delhi	01.Jan.2025 - 15.Mar.2025	Departmental Magazine "Expressions"
ADMINISTRATIVE ASSIGNMENTS	CONVENER	RESEARCH COMMITTEE Sri Venkateswara College	20.Jul.2025 - Till date	The Committee for SVC Research and Innovation Activities (SVCRIA)
ADMINISTRATIVE ASSIGNMENTS	MEMBER	HOSTEL COMMITTEE Sri Venkateswara College	20.Jul.2025 - Till date	
CAREER PROFILE	ASSISTANT PROFESSOR	DEPARTMENT OF BIOCHEMISTRY Sri Venkateswara College	10.Jun.2014 - 10.Jun.2019	
CAREER PROFILE	ASSOCIATE PROFESSOR	DEPARTMENT OF BIOCHEMISTRY Sri Venkateswara College	11.Jun.2019 - Till date	
CAREER PROFILE	POST DOCTORATE	OTHERS The Biodesign Institute at Arizona State University	01.Jul.2005 - 10.Feb.2010	
CAREER PROFILE	OTHERS	OTHERS The Biodesign Institute at Arizona State University	10.Feb.2010 - 21.May.2013	
ADMINISTRATIVE ASSIGNMENTS	OTHERS	OTHERS Sri Venkateswara College	22.Jul.2026 - Till date	

4. Other Profiles

Other Profile Name/ Description

5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
2028	Ph. D.	Dissecting TCS-Pkn Signaling Networks in Mycobacterium tuberculosis	Abhishek Garg	Pursuing
2027	Ph. D.	Understanding the regulation of toxin antitoxin systems of M. tuberculosis	Shafinaz Rahman Sarah	Pursuing

6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
2015	High-throughput substrate profiling of Mycobacterium tuberculosis Ser/Thr Protein kinase K	Department of Biotechnology, Govt of India	3 years	45.0 Lakhs	06.Feb.2015
2016	To Develop Novel FRET Based Tools for Detecting In Vivo Localization & Phosphorylation of M. tuberculosis Signaling Proteins	Cluster Innovation Center, DU	3 years	20.14 Lakhs	01.Jul.2016
2016	Delayed Sleep Phase Disorder (DSPD): A Public Health Initiative Targeting Youth in Urban Areas, Creating Socio-Legal Awareness and Development of a Rapid Mobile Diagnostic Test	Cluster Innovation Center, DU	3 years	24 Lakhs	01.Jul.2016
2021	Understanding the Role of Ser/Thr Protein Kinases in the regulation of Toxin-Antitoxin loci in Mycobacterium tuberculosis	Department of Biotechnology, Govt of India	3 years	123 Lakhs	15.Jul.2021
2012	High-throughput substrate profiling for Mycobacterium tuberculosis Protein Kinase K using Tuberculosis (TB)-Nucleic Acid Programmable Protein array (NAPPA) technology	Arizona Community foundation	12 months	20,000 usd	01.Nov.2011

7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	Characterization of a two-component System, devR-devS, of Mycobacterium tuberculosis	Tubercle and Lung Disease	21. Dasgupta, N., V. Kapur, K.K. Singh, T. K. Das, S. Sachdeva, K. Jyothisri and J. S. Tyagi (Joint Author)	https://doi.org/10.1054/tuld.2000.0240	May 2000

JOURNAL PAPER (International)	Disruption of response regulator gene, devR leads to attenuation in virulence of Mycobacterium tuberculosis	FEMS Microbiology Letters	Vandana Malhotra, Deepak Sharma, VD Ramanathan, H Shakila, Deepak K Saini, Soumitesh Chakravorty, Taposh K Das, Qing Li, Richard F Silver, PR Narayanan, Jaya Sivaswami Tyagi (First Author)	https://doi.org/10.1016/S0378-1097(04)00002-3	February 2004
JOURNAL PAPER (International)	Cross Talk between DevS sensor kinase homologue, Rv2027c, and DevR response regulator of Mycobacterium tuberculosis	FEBS Letters	Saini, D. K., V. Malhotra, J.S. Tyagi. (Joint Author)	https://doi.org/10.1016/j.febslet.2004.02.092	April 2004
JOURNAL PAPER (International)	DevR-DevS is a bona fide two-component system of Mycobacterium tuberculosis that is hypoxia responsive in the absence of the DNA binding domain of DevR.	Microbiology	19. Saini, D. K., V. Malhotra, D. Dey, N. Pant, T. K. Das and J. S. Tyagi. (Joint Author)	DOI 10.1099/mic.0.26218-0	April 2004
JOURNAL PAPER (International)	DevR-mediated adaptive response in Mycobacterium tuberculosis H37Ra: Links to asparagine metabolism	Tuberculosis	Vandana Malhotra, Jaya Sivaswami Tyagi, Josephine E Clark-Curtiss (First Author, Corresponding Author)	https://doi.org/10.1016/j.tube.2008.12.003	March 2009

JOURNAL PAPER (International)	Mycobacterium tuberculosis protein kinase K confers survival advantage during early infection in mice and regulates growth in culture and during persistent infection: implications for immune modulation	Microbiology	Vandana Malhotra, Lourdes T Arteaga-Cortes, Gwendolyn Clay, Josephine E Clark-Curtiss (First Author, Corresponding Author)	https://doi.org/10.1099/mic.0.040675-0	September 2010
JOURNAL PAPER (International)	The prrAB Two-Component System Is Essential for Mycobacterium tuberculosis Viability and Is Induced under Nitrogen-Limiting Conditions	Journal of Bacteriology	Shelley E Haydel, Vandana Malhotra, Garrett L Cornelison, Josephine E Clark-Curtiss (Joint Author)	https://doi.org/10.1128/jb.06258-11	January 2012
JOURNAL PAPER (International)	Mycobacterium tuberculosis protein kinase K enables growth adaptation through translation control	Journal of Bacteriology	Vandana Malhotra, Blessing P Okon, Josephine E Clark-Curtiss (First Author, Corresponding Author)	https://doi.org/10.1128/jb.00585-12	August 2012
JOURNAL PAPER (International)	Mycobacterium tuberculosis response regulators, DevR and NarL, interact in vivo and co-regulate gene expression during aerobic nitrate metabolism	Journal of Biological Chemistry	Vandana Malhotra, Ruchi Agrawal, Tammi R Duncan, Deepak K Saini, Josephine E Clark-Curtiss (First Author, Corresponding Author)	https://doi.org/10.1074/jbc.M114.591800	March 2015

JOURNAL PAPER (International)	The Mycobacterium tuberculosis relBE toxin:antitoxin genes are stress-responsive modules that regulate growth through translation inhibition	Journal of Microbiology	Shaleen B Korch, Vandana Malhotra, Heidi Contreras, Josephine E Clark-Curtiss (Joint Author)	https://doi.org/10.1007/s12275-015-0741-3	December 2015
JOURNAL PAPER (International)	Interplay of PhoP and DevR response regulators defines expression of the dormancy regulon in virulent Mycobacterium tuberculosis	Journal of Biological Chemistry	Atul Vashist, Vandana Malhotra, Gunjan Sharma, Jaya Sivaswami Tyagi, Josephine E Clark-Curtiss (First Author, Corresponding Author)	https://doi.org/10.1074/jbc.RA118.004331	October 2018
JOURNAL PAPER (International)	Acetylation of Response Regulator Proteins, TcrX and MtrA in M. tuberculosis Tunes their Phosphotransfer Ability and Modulates Two-Component Signaling Crosstalk	Journal of Molecular Biology	Krishna Kumar Singh, Neerupma Bhardwaj, Gaurav D Sankhe, Niveda Udaykumar, Rambir Singh, Vandana Malhotra, Deepak Kumar Saini (Joint Author)	https://doi.org/10.1016/j.jmb.2019.01.004	February 2019

JOURNAL PAPER (International)	Cyclic di?GMP sensing histidine kinase PdtaS controls mycobacterial adaptation to carbon sources	The FASEB journal	Vignesh Narayan Hariharan, Rahul Yadav, Chandrani Thakur, Albel Singh, Renu Gopinathan, Devendra Pratap Singh, Gaurav Sankhe, Vandana Malhotra, Nagasuma Chandra, Apoorva Bhatt, Deepak Kumar Saini (Joint Author)	https://doi.org/10.1096/fj.202002537RR	March 2021
JOURNAL PAPER (International)	A low-prevalence single-nucleotide polymorphism in the Sensor kinase PhoR in Mycobacterium tuberculosis suppresses its autophosphatase activity and reduces pathogenic fitness: implications in Evolutionary Selection	Frontiers in Microbiology	Uchenna Watson Waturuocha, MS Krishna, Vandana Malhotra, Narendra M Dixit, Deepak Kumar Saini (Joint Author)	https://doi.org/10.3389/fmicb.2021.724482	August 2021
JOURNAL PAPER (International)	A high-frequency single nucleotide polymorphism in the MtrB sensor kinase in clinical strains of Mycobacterium tuberculosis alters its biochemical and physiological properties	PLos One	D. K. Waturuocha, U. W., P. J., A., Singh, K. K., Malhotra, V., Krishna, M. S., & Saini (Joint Author)	https://doi.org/10.1371/journal.pone.0256664	September 2021

JOURNAL PAPER (International)	Mycobacterium tuberculosis PknK substrate profiling reveals essential transcription terminator protein Rho and two-component response regulators PrrA and MtrA as novel targets for phosphorylation	Microbiology Spectrum	Vandana Malhotra, Blessing P Okon, Akash T Satsangi, Sumana Das, Uchenna Watson Waturuocha, Atul Vashist, Josephine E Clark-Curtiss, Deepak Kumar Saini (First Author, Corresponding Author)	https://doi.org/10.1128/spectrum.01354-21	April 2022
JOURNAL PAPER (National)	In silico evidence for extensive Ser/Thr phosphorylation of Mycobacterium tuberculosis two-component signalling systems	Current Science	Abhishek Garg, Nimisha Khurana, Ananya Chugh, Kangna Verma, Vandana Malhotra (Corresponding Author)	doi: 10.18520/cs/v123/i9/1159-1164	November 2022
JOURNAL PAPER (International)	Demonstration of Membrane Transport of Histidine using Goat Intestinal Inverted Sacs: An Experiential Pedagogical Tool for Undergraduates	Journal of Visualized Experiments	Hiba Haris, Prachi Kumar, Vivek Bhardwaj, Sidhartha Taritla, Vandana Malhotra, Nandita Narayanasamy (Corresponding Author)	https://dx.doi.org/10.3791/66882	October 2024
JOURNAL PAPER (International)	Ser/Thr phosphorylation of Mycobacterium tuberculosis type II RelK toxin by PknK destabilizes TA interaction and interferes with toxin neutralization	mBio	Shafinaz Rahman Sarah, Abhishek Garg, Sadiyah Afroz, Shaleen Korch, Arjun Ray, Amita Gupta, Vandana Malhotra (Corresponding Author)	https://doi.org/10.1128/mbio.01068-25	June 2025

JOURNAL PAPER (International)	RelK, a YoeB-like toxin from Mycobacterium tuberculosis displays ribosome independent endonucleolytic activity	Biochimica et Biophysica Acta (BBA) - Molecular Cell Research	Shafinaz Rahman Sarah a b , Nimisha Sinha a , Harsh A. Gandhi c , Jaydeep Bhattacharya c, Vandana Malhotra (Corresponding Author)	https://doi.org/10.1016/j.bbamcr.2025.120097	February 2026
JOURNAL PAPER (International)	Tamoxifen inhibits histidine kinases of M. tuberculosis two-component signaling systems	Microbiology Spectrum / ASM	Abhishek Garghttps, Devendra Pratap Singh, Mansi Pandit, Vandana Malhotra, Deepak Kumar Saini (Corresponding Author)	https://doi.org/10.1128/spectrum.01880-25	February 2026
CHAPTER (National)	Life Science Protocol Manual	Department of Biotechnology Govt of India	Vandana Malhotra and Meeta Bhardwaj (First Author)		January 2018
CHAPTER (National)	Life Science Protocol Manual	Department of Biotechnology Govt of India	Nandita Narayanasamy, Vandana Malhotra (Joint Author)		January 2018
CHAPTER (International)	Essential Laboratory Techniques and Biochemical Analysis	Taylor and Francis	Vandana Malhotra (Sole Author)	https://doi.org/10.1201/9781003538691	September 2025

8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number

9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2025	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	INVITED SPEAKER	National	Recent Frontiers in Disease Biology: Latest Innovations and Biotechnological Solutions	21.Jul.2025 - 25.Jul.2025

2025	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	INVITED SPEAKER	National	Biosafety Training	14.May.2025 - 14.May.2025
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	RESOURCE PERSON	National	Digital Pedagogy and Climate Change education across disciplines	28.Aug.2021 - 28.Aug.2021
2025	SHORT TERM COURSE	RESOURCE PERSON	College	SVC ?????? ?: ???????? ????????????? ??	11.Feb.2025 - 12.Feb.2025

Dr. VANDANA MALHOTRA