NAME		D	Dr Navaneet Chaturvedi					
DESIGNATION			Assistant Professor-II					
EMAIL ID			nchaturvedi@amity.edu					
CONTACT NUMBER			9451067728					
RESEARCH INTERESTS			Structural Bioinformatics; Computational (Bio)chemistry; Protein Engineering; Molecular Modeling; Molecular Dynamics; Molecular Docking; AI/ML					
EDUCATIONAL Name of College /	Universit	CATIONS: v		Degree		Year		
University of Allahabad, Prayagraj, Ind			ia DPhil (Bioinformatics)			2014		
University of Alla	habad, Pra	iyagraj, India	a MSc (Bioinformatics)			2008		
Title of Ph.D. thesis: "In silico Analysis and characterization of metal binding proteins of microbial system with references to heavy metal tolerance" EXPERIENCE (in chronological order): Total 08 Years Research & Teaching								
Designation	Type of	post held	N	ame of the Institute	Year (From – To)			
	(teachin	g/ research)						
Assistant	Teaching and			AIB Amity University				
Professor	Researc	ch	l	Noida, UP, India	Sept-202	23 to continue		
Senior Scientist	Research			PharmCADD India Pvt Ltd, Hyderabad, India	June-2022 to June-2023			
Research Associate	Researc	ch		University of Leicester, UK	March-2020 to Oct-2021			
Assistant Professor	Teaching and Resear		University of Information Science and technology, St Paul the Apostle, Ohrid, North Macedonia Apr-2019 to Feb-202		9 to Feb-2020			
Research Associate	Researc	ch	School of Biochemical Engineering, IIT(BHU), Varanasi, India Feb-2018 to Feb-20		8 to Feb-2019			
Postdoc	Research		,	Tel Aviv University, Israel	Dec-201	3 to Oct-2017		
No. of Ph.D. studer	nts	nil						
supervised								
No. of Post-Doc		nil						
No. of M.Tech. Students		02						
supervisea: No. of B.Tech. Students		03						
supervised:		15						
PUBLICATIONS (mention total no. 34)		 Details: (Impact factor: 2023) Shahid, R., Shahid, S., Gund, J., & <u>Chaturvedi, N.</u> (2024). AI-based advances in crop disease detection and health improvement. <i>Methods in Microbiology</i>. Academic Press (Accepted). (IF: 3.0) Dharmani, K., Sinha, A., & <u>Chaturvedi, N.</u> (2024). AI-driven microbial medicine development. In A. Srivastava & V. Mishra (Eds.), <i>Methods in Microbiology</i> (Vol. 55, pp. 101-124). Academic Press. <u>https://doi.org/10.1016/bs.mim.2024.05.008</u> (IF: 3.0) 						

	3.	Mishra, V., Mishra, S. K., Srivastava, A., Dubey, C. K., Dharmani, K., &
		Chaturvedi, N. (2024). Leveraging artificial intelligence (AI) and
		machine learning (ML) for enhanced drug discovery and development
		from microbes. In A. Srivastava & V. Mishra (Eds.), Methods in
		Microbiology (Vol. 55, pp. 125-140). Academic Press.
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4	4.	<u>Chaturvedi, N</u> ., Yadav, M. K., & Sharma, M. (2024). Applications of
		artificial intelligence and machine learning in microbial diagnostics and
		Migraphiology (Vol. 55 pp. 212-230) Academic Pross
		https://doi.org/10.1016/bs.mim.2024.05.013 (IF: 3.0)
	5.	Karthic, A.: Kesarwani, V.: Singh, R.K.: Yaday, P.K.: Chaturvedi, N.:
		Chauhan P · Yaday B S · Kushwaha S K (2022) Computational study
		reveals monomethylated triazolopyrimidine as a novel inhibitor of
		SARS-CoV-2 RNA-dependent RNA polymerase (RdRn) Molecule 27
		801 https://doi.org/10.3300/molecules/27030801 (IE• 4.2)
	6	D K Chaodhary N Chaturyodi A Singh A Mishra (2021) Catachin
	0.	b K Chaodhary, <u>A Chaodh vedi,</u> A Shigh, A Mishia (2021) Catechini isolated from faba bases (Visia faba L.); insights from evidetive stress
		isolated from rada deans (victa rada L.). Insights from oxidative stress
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	/.	Mutaib MM, <u>Chaturvedi N.</u> , et al (2021) Biocomputational Prediction
		Approach Targeting FimH by Natural SGL12 Inhibitors: A Possible
		Way to Overcome the Uropathogenic Effect of SGL12 Inhibitor Drugs,
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1	8.	V. K. Soni, A. Mehta, Y. K Ratre, A. K. Tiwari, A. Amit, R. P. Singh, S.
		C. Sonkar, <u>N. Chaturvedi</u> , D. Shukla, N. K. Viswakarma (2020)
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9	9.	S Singh, <u>N Chaturvedi</u> , G Rai (2020) <i>De novo</i> modeling and structural
		characterization of IL9-IL9 receptor complex: A potential drug target for
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1	10.	<u>N Chaturvedi</u> , E Nachliel, M. Gutman (2020) Characterization of Pre-
		Dissociative Structures of the E6AP Trimer by All-atom Unbiased
		Molecular Dynamics, Israel Journal of Chemistry,
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]	11.	D K Chaodhary, <u>N Chaturvedi,</u> A Singh, A Mishra (2020) Investigation
		of hypoglycaemic effects, oxidative stress potential and xanthine-oxidase
		activity of polyphenols (gallic-acid, catechin) derived from faba bean on
		3 T3-L1 Cell line: insights through molecular docking and simulation
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		Changes in S100A1 Protein: A Combination of Molecular Dynamics and
	12	Gene Expression Study in Skeletal Muscle, <i>Cells</i> 9 (1), 181. (IF: 5.1)
	13.	BS raday, <u>N Unaturvedi</u> , N Marina (2019) Recent Advances in System
		pharmaceutical design 25 (21) 2367 2377 (IE-26)
	14	D K Choudhary N Chaturvedi A Singh A Michra (2010)
	A T.	Characterization, inhibitory activity and mechanism of polyphenols from
		faba bean (gallic-acid and catechin) on α -glucosidase: insights from
		molecular docking and simulation study, Preparative Biochemistry &
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	15.	Khurshid Ahmad, Vishal M. Balaramnavar, Chaturvedi N, Saif Khan,
		Shafiul Haque, Yong-Ho Lee, Inho Choi (2019), Targeting Caspase 8:
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	for the treatment of multi-neurodegenerative diseases <i>Molecules</i> 24 (9)
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16	Choturvadi N* Mishra Abha Dawat Varun (2010) Synthesis and
10.	<u>Characterization of Ovugan Danlated Tart Amina Caliv[4] Arona Liganda</u>
	Characterization of Oxygen Depieted Tent-Annue Canx[4]Arene Ligands
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17.	Yadav BS, <u>Chaturvedi N</u> , Yadav P, Marina N, Ganash M, Barreto GE,
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	molecular dynamics study of newly sequenced interleukin-18 (IL-18)
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	14295 (Equally contributed with first author). (IF: 4.5)
18.	Chaturvedi N*. Brijesh Singh Yaday . Paras Nath Pandey, Vijay
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10	Vadav PK Vadav BS Panigrahi PN Tripathi V Chaturvadi N Kataria
17.	M (2017) Molecular characterization and incilian englysis of the tissue
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	innibitor of metalloproteinases-3 (TIMP-3) gene of canine mammary
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20.	Harikrishna Pillai, Yadav BS, <u>Chaturvedi N</u> et al. (2017), Protein
	modelling and molecular dynamics simulation of cloned Regucalcin
	(RGN) gene from Bubalus bubalis, Comb Chem High. Vol- 20, 186-192.
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21.	Amber-Vitos O, Chaturvedi N, Nachliel E, Gutman M, Tsfadia Y.
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22.	Chaturvedi N* . Micheal Kaszik, Stephen Forsythe, Paras Nath Pandey
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23	Chaturvedi N* Paras Nath Pandev (2014) Phylogenetic analysis of
<i></i> .	Gammaproteobacterial arsenate reductase proteins specific to
	Enterobactoriaceaa family signifying arsenic toxicity suggests
	importance of Enterphaeter spacios in arsonic toxicity Interdiscin Sci
	importance of Enterobacter species in arsenic toxicity, <i>intertaiscip Sci.</i> , $f(1), 57, 62$ (IE, 2.0)
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24.	<u>Chaturvedi N*</u> , vinay Kumar Singn, Paras Nath Pandey (2013),
	Computational identification and analysis of arsenate reductase protein in
	Cronobacter sakazaku ATCC BAA-894 suggests potential
	microorganism for reducing arsenate, J Struct Funct Genomics.,
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25.	Chaturvedi N* et al. (2011) Hidden Markov Model for the Prediction of
	Transmembrane proteins using MATLAB, Bioinformation 7(8): 418-
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26.	Raksha Singh, Chaturvedi N and Vinay Kumar Singh (2012), In-silico
	study of novel herbal compounds (Baicalin, Curcumin and Dronabinol)
	as MAO inhibitors for Parkinson's disease treatment, International
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27.	A. Rahman, <u>Chaturvedi N</u> et al (2013), Computational protein modeling
	and Analysis of UV-stress protein in Synechocystis sp. PCC 6803,
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28.	Chaturvedi N* and Pandev PN (2011) In Silico Genome Analysis of
	Gammaproteobacteria with Reference to Metal Binding Sites.
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	issue) pp. 501-50
29	S.C. Sonkar, A. Mishra, N. Chaturvedi* (2019) A. Road-man to Tackle
<u>_</u> ,	the Challenges of Antimicrobial Resistance: Act Today for Patter
	Tomorrow EC Microbiology 15 (10) 1154 1156
20	Choturwodi N* and Danday DN (2020) Malaanian Dynamical
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	Investigation of a rode Protein Signifies Zinc IonKesidues Interactions,
21	International Acaa. of Physical Sciences 24(1) 105-114.
51.	Soni vK, Menta A, Snarma K, Ratre YK, Dwivedi M, Chaturvedi N, et

	al. (2022) Immunity boosters in COVID-19: Reality or myth? <i>Med India</i> ,						
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	32. Menta A <u>Chaturvedi N.</u> (2021) Short-Chain Fatty Acids as						
	Therapeutic Agents in Colon Malignancies. In: Nagaraju G.P., Shukla						
	D., Vishvakarma N.K. (eds) Colon Cancer Diagnosis and Therapy.						
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	(Chapter).						
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	Curcumin Against Colorectal Cancer: Application and Mechanisms. In:						
	Shukla D., Vishvakarma N.K., Nagaraju G.P. (eds) Colon Cancer Diagnosis and Therapy Vol. 3. Springer, Cham. https://doi.org/10.1007/978-3-030-72702-4_18. (Chapter).						
	34. Vivek Kumar Soni,, Navaneet Chaturvedi, Dhananjay Shukla and						
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	from Chemosensitization to Immunopotentiation, Mushrooms: A Wealth						
	of Nutraceuticals and An Agent of Bioremediation, 9-34 (26). Springer,						
	DOI: 10.2174/9789815080568123010005 (Chapter).						
PATENTS	TEMP/E-1/76630/2024-DEL						
(total no. 01)	Title: 'A Bioreactor Provided with a Method for Bioremediation of Lead (Pb)						
	Contamination in Water Using Escherichia Fergusonii Strain U1'						
RESEARCH PROJECTS							
Completed: (total no.)	Details:						
Ongoing: (total no.)							
	Details:						
	1) Project JRF : Department of Biotechnology (DBT), New Delhi,						
	India (2009)						
	2) Young Scientist Award: International Academy of Physical						
	Sciences at SVNIT. Surat. India (2011)						
AWARDS & HONOURS/	3) 3rd Best Poster Presentation: Tel Aviv University. Israel (2016)						
DISTINCTIONS	4) PBC fellowshin: Planning and budgeting committee. Israel (2014)						
	5) MFA Fellowship: Ministry of Foreign Affairs. Israel (2013)						
	6) Award of Appreciation for Online Training on Advanced						
	Bioinformatics: Bansal Institute of Engineering and Technology						
	Lucknow India (2020)						
	Details:						
MEMBERSHIP with	1) Life Member: BioClues organization. India (Bio-LM-2020-061)						
Professional/ Academic	2) Life Member: Indian Biophysical Society (1278)						
bodies	3) Life Member: International Academy of Physical Sciences						
	(N10109)						