NAME	Dr Navaneet Chaturvedi		
DESIGNATION	Assistant Professor-II		
EMAIL ID	nchaturvedi@amity.edu		
CONTACT NUMBER	9451067728		
RESEARCH INTERESTS	Structural Bioinformatics, Computational Drug Design, Computational (Bio)chemistry, Biomolecular Interactions study, ML, AI		

EDUCATIONAL QUALIFICATIONS:

EDUCATIONAL QUALIFICATIONS.		
Name of College / University	Degree	Year
Center of Bioinformatics, University of Allahabad	Master of Science (Bioinformatics)	2008
Center of Bioinformatics, University of Allahabad	DPhil (Bioinformatics)	2014

## Title of Ph.D. thesis:

EXPERIENCE (in chronological order): Total 20 Years Research & Teaching

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
PostDoc	Research	Tel Aviv University, Israel	2013-2017
Research Associate	Research	School of Biochemical Engineering, IIT(BHU), India	2018-2019
Assistant Professor	Teaching and Research	University of Information Science and Technology, St Paul the Apostle, Ohrid, North Macedonia	2019-2020
Research Associate	Research	University of Leicester, UK	2020-2021
Scientist	Research	PharmCADD India Pvt Ltd, Hyderabad	2022-2023

## No. of Ph.D. students supervised

No. of Post-Doc

No. of M.Tech. Students supervised:

No. of B.Tech. Students supervised:

## Details:

PUBLICATIONS (mention total no. here)

 Karthic, A.; Kesarwani, V.; Singh, R.K.; Yadav, P.K.; <u>Chaturvedi, N.</u>; Chauhan, P.; Yadav, B.S.; Kushwaha, S.K. (2022) Computational study reveals monomethylated triazolopyrimidine as a novel inhibitor of SARS-CoV-2 RNA-dependent RNA polymerase (RdRp), *Molecule*, 27, 801 https://doi.org/10.3390/molecules27030801.

- 2. D K Chaodhary, N Chaturvedi, A Singh, A Mishra (2021) Catechin isolated from faba beans (Vicia faba L.): insights from oxidative stress and hypoglycemic effect in yeast cells through confocal microscopy, flow cytometry, and in silico strategy, *Journal of Biomolecular Structure and Dynamics* https://doi.org/10.1080/07391102.2021.1945953.
- 3. Mutaib MM, <u>Chaturvedi N.</u>, et al (2021) Biocomputational Prediction Approach Targeting FimH by Natural SGLT2 Inhibitors: A Possible Way to Overcome the Uropathogenic Effect of SGLT2 Inhibitor Drugs, *Molecules*, 26(3), 582, https://doi.org/10.3390/molecules26030582 (Equally contributed with first author).
- V. K. Soni, A. Mehta, Y. K Ratre, A. K. Tiwari, A. Amit, R. P. Singh, S. C. Sonkar, N. Chaturvedi, D. Shukla, N. K. Viswakarma (2020) Curcumin, a traditional spice component, can hold the promise against COVID-19?, European Journal of Pharmacology, 886, 173551 https://doi.org/10.1016/j.ejphar.2020.173551.
- 5. N Chaturvedi, E Nachliel, M. Gutman (2020) Characterization of Pre-Dissociative Structures of the E6AP Trimer by All-atom Unbiased Molecular Dynamics, Israel Journal of Chemistry, doi.org/10.1002/ijch.202000016.
- 6. D K Chaodhary, N Chaturvedi, 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 study, Toxicology Research, doi.org/10.1093/toxres/tfaa025.
- 7. N Chaturvedi\*, K Ahmad, BS Yadav, EJ Lee, SC Sonkar, N Marina, I Choi (2020), Understanding Calcium-Dependent Conformational Changes in S100A1 Protein: A Combination of Molecular Dynamics and Gene Expression Study in Skeletal Muscle, *Cells* 9 (1), 181.
- 8. BS Yadav, N Chaturvedi, N Marina (2019) Recent Advances in System Based Study for Anti-Malarial Drug Development Process, Current pharmaceutical design 25 (31), 3367-3377.
- 9. D K Choudhary, N Chaturvedi, A Singh, A Mishra (2019), 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 & Biotechnology* 50 (2), 123-132.
- 10. Khurshid Ahmad, Vishal M. Balaramnavar, <u>Chaturvedi N</u>, Saif Khan, Shafiul Haque, Yong-Ho Lee, Inho Choi (2019), Targeting Caspase 8: Using structural and ligand-based approaches to identify potential leads for the

- treatment of multi-neurodegenerative diseases, *Molecules* 24 (9), 1827.
- 11. <u>Chaturvedi N\*</u>, Mishra Abha, Rawat Varun (**2019**), Synthesis and Characterization of Oxygen Depleted Tert-Amine Calix[4]Arene Ligands and Study the Effect on Sigma Non-Opioid Intracellular Protein Receptor, *Struct Chem* 30, 1899–1910 DOI: 10.1007/s11224-019-01324-x.
- 12. Yadav BS, <u>Chaturvedi N</u>, Yadav P, Marina N, Ganash M, Barreto GE, Ashraf GM, Baig MH(**2019**) Protein modelling, molecular network and molecular dynamics study of newly sequenced interleukin-18 (IL-18) gene in *Mus musculus, Journal of cellular physiology* 234 (8), 14285-14295 (*Equally contributed with first author*).
- 13. <u>Chaturvedi N\*</u>, Brijesh Singh Yadav , Paras Nath Pandey, Vijay Tripathi (2017) The effect of the β-glucan and its Potential Analog on the Structure of Dectin-1 Receptor, *Journal of Molecular Graphics and Modelling*, Vol74 315–325.
- 14. Yadav PK, Yadav BS, Panigrahi PN, Tripathi V, Chaturvedi N, Kataria M., (2017) Molecular characterization and insilico analysis of the tissue inhibitor of metalloproteinases-3 (TIMP-3) gene of canine mammary tumor, *Comb Chem High*, Vol-20 1-12.
- 15. 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.
- **16.** Amber-Vitos O, <u>Chaturvedi N</u>, Nachliel E, Gutman M, Tsfadia Y. (**2016**), The effect of regulating molecules on the structure of the PPAR-RXR complex, *Biochim Biophys Acta*. 2016 Nov; 1861(11):1852-1863.
- 17. <u>Chaturvedi N\*</u>, Micheal Kaszik, Stephen Forsythe, Paras Nath Pandey (2015), Protein Sequences Insight into Heavy Metal Tolerance in *Cronobacter sakazakii* BAA-894 encoded by Plasmid pESA3, Archives of Microbiology, 197, 11411149.
- 18. <u>Chaturvedi N\*</u> Paras Nath Pandey (2014), Phylogenetic analysis of Gammaproteobacterial arsenate reductase proteins specific to Enterobacteriaceae family, signifying arsenic toxicity suggests importance of Enterobacter species in arsenic toxicity, *Interdiscip Sci.*, 6(1): 57-62.
- 19. <u>Chaturvedi N\*</u>, Vinay Kumar Singh, Paras Nath Pandey (2013), Computational identification and analysis of arsenate reductase protein in *Cronobacter sakazakii* ATCC BAA-894 suggests potential microorganism for reducing arsenate, *J Struct Funct Genomics.*, 14(2):37-45.
- 20. <u>Chaturvedi N\*</u> et al. (2011) Hidden Markov Model for the Prediction of Transmembrane proteins using MATLAB, *Bioinformation* 7(8): 418-421.
- 21. Raksha Singh, <u>Chaturvedi N</u> 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 journal of*

	Life science & Pharma Research, 2(3) 81-98.
	22. A. Rahman, <u>Chaturvedi N</u> et al (2013), Computational
	protein modeling and Analysis of UV-stress protein in
	Synechocystis sp. PCC 6803, Bioinformation, 9(12): 639-644.
	23. Chaturvedi N* and Pandey PN (2011) In Silico Genome
	Analysis of Gammaproteobacteria with Reference to Metal
	Binding Sites, Proceedings of International Acad. of
	Physical Sciences, vol. 15, (special issue) pp. 501-50
	24. S C Sonkar, A Mishra, N Chaturvedi* (2019), A Road-
	map to Tackle the Challenges of Antimicrobial Resistance: Act Today for Better Tomorrow, <i>EC Microbiology</i> 15 (10),
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	25. S Singh, N Chaturvedi, G Rai (2020) De novo modeling
	and structural characterization of IL9-IL9 receptor
	complex: A potential drug target for hematopoietic stem
	cell therapy, Network Modeling Analysis in Health
	Informatics and Bioinformatics. doi.org/10.1007/s13721-
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	26. <u>Chaturvedi</u> N* and Pandey PN (2020) Molecular
	Dynamical Investigation of a YodA Protein Signifies Zinc
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	Sciences 24(1) 105-114.
	27. Soni VK, Mehta A, Sharma K, Ratre YK, Dwivedi M, Chaturvedi N, et al. (2022) Immunity boosters in COVID-
	19: Reality or myth? <i>Med India, 1:3.</i>
	doi:10.25259/MEDINDIA_1_2021
	28. Mehta AChaturvedi N. (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. Springer, Cham. https://doi.org/10.1007/978-3-030-63369-1_10.
	29. Soni V.K. et al. (2022) Antineoplastic Effects of Curcumin
	Against Colorectal Cancer: Application and Mechanisms.
	In: Shukla D., Vishvakarma N.K., Nagaraju G.P. (eds)
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	Cham. https://doi.org/10.1007/978-3-030-72702-4_18.
PATENTS (total no.)	
	Details: 01 Processed (Israel)
RESEARCH PROJECTS	D. de He
1 '	Details:
Ongoing: (total no.)	Details:1. Project JRF (from DBT) at GB Pant University of
	Agriculture & Technology, Pantnagar, Uttarakhand
AWARDS & HONOURS/	2. Best Poster Award at Tel Aviv University, Israel
DISTINCTIONS	3. Young Scientist Award at SVNIT, Surat, Gujrat
	4. Postdoc Fellowship from Ministry of foreign affairs, Israel 5. PBC fellowship from Government of Israel
	6. MRC Fellowship, UK
MEMBERSHIP with Professional/	Details: 1. Indian Biophysical Society, India
Academia bodies	<ul><li>2. Bioclues Organization, India</li><li>3. International Academy of Physical Sciences, India</li></ul>