NAME			Dr. Puniti Mathur		
DESIGNATION			Associate Professor		
EMAIL ID			pmathur@amity.edu		
CONTACT NUMBER			0120-4392204		
RESEARCH INTERESTS			Molecular modeling and dynamics of proteins, peptide design, synthesis and solution conformation		
	AL QUALIFICATION	NS:			
Name of College / University			Degree	Year	
All India Institute of Medical Sciences, N Delhi			Ph.D	2003	
IIT Roorkee			MSc. Biotechnology	1997	
dehydroamino acids  EXPERIENCE (in chronological order)					
Designation	Type of post held (teaching/ research)	Name of	f the Institute	Year (From – To)	
Research Assistant	Research	International Center for Genetic Engineering and Biotechnology, New Delhi			
Assistant Manager	Industry research	Dabur P	Pharma Research ion, Sahibabad, Ghaziabad	2004-2008	
Assistant Professor	Teaching and research	-	nstitute of Biotechnology, Jniversity, Noida	2008-May 2017	
Associate Professor	Teaching and research	Centre f and Biod of Biote	or Computational Biology informatics, Amity Institute chnology, Amity ity, Noida	June 2017-present	
PUBLICATIONS  PUBLICATIONS  R S P C C B C C C C C C C C C C C C C C C C			Awarded: (no. only) Ongoing: 3		
		Supriya Srivastava, Seneha Santoshi, Balwant Kishan Malik, Puniti Mathur (2017) Molecular modeling and molecular dynamics studies of SPECT protein of Plasmodium falciparum and in silico screening of lead compounds <i>International Journal of Pharmaceutical Sciences and Research</i> (Accepted)  Rajesh Pal, Gauri Misra and Puniti Mathur (2017) In Silico Screening Of Small Molecule Modulators Of Zika Virus Proteins <i>Proceedings of the 7th International Conference Confluence 2017 on Cloud Computing, Data Science and Engineering 7943179, pp. 381-386 (IEEE) doi: 10.1109/CONFLUENCE.2017.7943179</i>			

Supriya Srivastava, Puniti Mathur (2016) Homology Modeling and Docking Studies of Pfmc2TM Maurer's cleft two transmembrane protein –A Potential Drug Target in Malaria. *International Journal of Control Theory and Applications* 9(3):219-225

Uzma Khanam, Balwant Kishan Malik, Puniti Mathur, Bhawna Rathi (2016) Identification of novel inhibitors for mitogen-activated protein kinase kinase 4 by virtual screening and molecular dynamics simulation techniques. *International Journal of Pharmacy and Pharmaceutical Sciences* 8(7): 262-268

Madhvi Gupta Datta, Puniti Mathur, V.S. Chauhan (2011) De novo design, synthesis and solution conformational study of two didehydroundecapeptides: effect of nature and number of amino acids interspersed between ΔPhe residues. *Journal of Peptide Science* 17(12): 783-790

Gupta Madhavi, Bagaria Ashima, Mishra Aseem, Mathur Puniti, Basu Atanu, Ramakumar S, Chauhan VS (2007) Self-assembly of a dipeptide containing conformationally restricted dehydrophenylalanine residue to form ordered nanotubes *Advanced Materials* 19(6): 858-861

Puniti Mathur, N.R. Jagannathan, V.S. Chauhan (2007)  $\alpha$ ,  $\beta$  - Dehydrophenylalanine containing cecropin-melittin hybrid peptides: conformation and activity. *J. Peptide Science* 13(4): 253-262.

Puniti Mathur, U.A. Ramagopal, S. Ramakumar, N. R. Jagannathan, V.S. Chauhan (2006) Stabilization of unusual structures in peptides using  $\alpha$ ,  $\beta$  – dehydrophenylalanine: Crystal and solution structures of Boc-Pro- $\Delta$ Phe-Val- $\Delta$ PheAla-OMe and Boc-Pro- $\Delta$ Phe-Gly- $\Delta$ Phe-Ala-OMe. *Biopolymers* (*Peptide Science*) 84 (3): 298-309

Puniti Mathur, S. Ramakumar, V. S. Chauhan (2004) Peptide Design using  $\alpha$ ,  $\beta$  - dehydroamino acids: From  $\beta$ - turns to helical Hairpins. *Biopolymers (Peptide Science)* 76(2): 150-161

Padyana A. K., Ramakumar S., Mathur P., Jagannathan N. R., Chauhan V. S.(2003) Role of a two-residue spacer in an  $\alpha$ ,  $\beta$ -didehydrophenylalanine containing hexapeptide: Crystal and solution structure of Boc-Val- $\Delta$ Phe-Leu-Ala- $\Delta$ Phe-Ala-OMe. *J. Peptide Science* 9: 54-63.

Ramagopal U. A., Ramakumar S., Mathur P., Joshi, R. M., Chauhan V. S. (2002) Dehydrophenylalanine zippers: strong helix-helix clamping through a network of weak interactions.

	Protein Engineering 15: 331-335.		
	Froiem Engineering 13. 331-333.		
	Mathur P., Srivatsun S., Joshi R.M., Jagannathan N. R., Chauhan V. S. (1999) Dehydrophenylalanine containing analogs of Tritrpticin show increased biological activity. <i>J. BioSciences</i> . 24: 42.		
PATENTS (1)	Synthetic peptide as glucokinase activator for treatment of Type 2 diabetes (3973/DEL/2015) Filed		
RESEARCH PROJECTS Ongoing: (1)	"Design, synthesis and biological activity of non-coded amino acids containing peptides as potential activators of hepatic glucokinase: Implications in Type 2 diabetes therapy" Funded by Department of Biotechnology (BIOCARE) as Principal Investigator		
	• Senior Research Fellowship Council of Scientific and Industrial Research (CSIR) Government of India, India		
AWARDS & HONOURS/ DISTINCTIONS	• Qualified GATE in 1997		
	• M.Sc. Biotechnology Scholarship of Department of Biotechnology Government of India, India		
	Life member of Indian Biophysical Society		
MEMBERSHIP with Professional/ Academic bodies	• Member of N.M.R. Society of India		
	• Life member of Indian Peptide Society		