

BIO-DATA

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3. Institution : Osmania University
4. Date of Birth : 13/06/1976
5. Gender (M/F/T) : Female
6. Category Gen/SC/ST/OBC : OC
7. Whether differently abled (Yes/No)

8. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution	% of marks
1.	BSC	April 1997	Genetics, Zoology, Chemistry	Osmania University	72
2.	BEd	November 1999	Biology	Osmania University	61
3.	MSc	April 2002	General Chemistry	University of Hyderabad	66
4.	PhD	Feb 2009	Biophysical chemistry	University of Hyderabad	

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.
Physicochemical studies on Galactose-specific seed lectins from Cucurbitaceae, Prof. M.J. Swamy/Department of Chemistry/University of Hyderabad, 2009

10. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1	Post doctoral fellow	Herbert Wertheim college of Medicine, Florida International University, Florida, USA	October 1 st 2009	September 9 th 2013	\$35000 to \$38000

2	Asst Professor	University College for Women,	September 10 th 2013	October 5 th 2017	15,600-39,100+AGP Rs. 6000
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		Osmania University			
3	Asst Professor	Osmania University	October 6 th 2017	Till date	15,600-39,100+AGP Rs. 7000

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1	Merit Bonus Award	Florida International University	2011

12. Publications (*List of papers published in SCI Journals, in year wise descending order*).

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	Nakka Srisailam, Narmada Vallakeerthi, Revathy Sundara Moorthy, Kavitha Marapakala	Simultaneous RP-HPLC Estimation, Validation and Stability Indicating Assay of Two-Component Tablet Formulation Containing Grazoprevir and Pibrentasvir	IGPQA	15	896-901	2024
2	S. Bhaskar, Narmada Vallakeerthi, A. Sanjeev, M. Kavitha, Anren Hu and P. Muralidhar Reddy	Method Validation for Quantification of Lopinavir in Human Plasma by using LC-MS/MS	Eur. J. Mol. Clin. Med	10	1083-1101	2023

3	G. Swetha, Revathy Sundara Moorthy, K. Premalatha M., Kavitha and P. Muralidhar Reddy	Overview of the Effect of Covid-19 Pandemic on Forensic Pathology	<i>High Technology Letters</i>	28(5)	134-139	2022
4	Muttineni R, Binitha RN, Putty K, Marpakal a K , Sandra SP, Panyam J, Vemula A, Singh SM, Balachandran S, Viroji Rao ST, Kondapi AK	SARS-CoV-2 variants and spike mutations involved in second wave of COVID-19 pandemic in India	Transboundary and Emerging Diseases			March 2022
5	Moorthy RS, Rondla R, Kavitha M , Hima Bindu P, Pasha C, Reddy PM	Potential applications of nanoparticle s embedded U-bent fiber optic probe	In AIP Conference Proceedings	Vol. 2369, No. 1	020035	2021
6	A. Sanjeev, S. Bhaskar, Narmada Vallakeerti, M. Kavitha , Anren Hu, P. Muralidhar Reddy	Development and Validation of RP-HPLC Method in Simultaneous Estimation of Lamivudine and	Journal of Critical Reviews	Vol. 7, Issue 2	1358-1370	2020

		Abacavir as Tablet Dosage Form				
7	Swamy, M.J.; Marapakala, K. ; Sultan, N.A.; Kenoth, R.	Galactose-specific seed lectins from Cucurbitaceae	Curr Protein Pept Sci	16	17-30	2015
8	Marapakala, K. ; Packianathan, C.; Ajees, A.A.; Dheeman, D.S.; Sankaran, B.; Kandavelu, P.; Rosen, B.P	A disulfide-bond cascade mechanism for arsenic (III) S-adenosylmethionine methyltransferase	Acta Crystllogr D Biol Crystallogr	71	505-15	2015
9	Ajees, A. A ¹ . Marapakala, K. , Qin, J., Sankaran, B., and Rosen, B. P	Structure of an As(III) S-Adenosylmethionine Methyltransferase: Insights into the Mechanism of Arsenic Biotransformation,	Biochemistry	51	5476-5485	2012
10	Marapakala, K. , Qin, J. and Rosen, B. P	Identification of catalytic residues in the ArsM As(III) S-adenosylmethi	Biochemistry	51	944-951	2012
		onine methyltransferase				

11	Marapakala, K., Ajees, A. A., Qin, J., Sankaran, B., and Rosen, B. P.	Crystallization and preliminary X-ray crystallographic analysis of the Arsenic(III) S-adenosylmethionine methyltransferase	Acta crystallographica	66	1050-1052	2010
12	Kavitha, M., Bobbili, K.B and Swamy, M.J.	Spectroscopic and differential scanning calorimetric studies on the unfolding of Momordica charantia (bitter gourd) seed lectin. Similar modes of thermal and chemical denaturation	Biochimie	92	58-64	2010
13	Kavitha, M., and Swamy, M.J.	Spectroscopic and differential scanning calorimetric studies on the unfolding of Trichosanthes dioica seed lectin. Similar modes of thermal and chemical denaturation	Glycoconjugate J	26	1075-84	2009
14	Kavitha, M., Sultan, N.A.M., and Swamy, M.J. (2009)	Fluorescence studies on the interaction of hydrophobic ligands with Momordica charantia (bitter gourd) seed <i>lectin</i>	Photochem photobiol B Biol	94	59-64	2009
15	Sultan, N.A.M.,	Purification and	IUBMB Life	61	457-469	2009

	Kavitha, M., and Swamy, M.J.	physicochemical characterization of two galactose- specific isoelectins from the seeds of <i>Trichosanthes cordata</i>				
16	Kavitha, M., and Swamy, M.J.	Thermodynamic studies on the interaction of water- soluble porphyrins with the glucose/mann ose-specific lectin from garden pea (<i>Pisum sativum</i>)	IUBMB Life	58	720-730	2006
17	Komath, S.S., Kavitha, M., and Swamy, M.J.	Beyond carbohydrate binding: new directions in plant lectin research	Org. Biomol. Chem	4	973-988	2006

Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1	BSC first year chemistry	Prof. Deva Das Manwal, Dr. K. Venkateswara Rao, Prof. P. Leelavathi, Dr. B. Sireesha, Dr. M. Kavitha, Dr. B. Ramesh	Telugu Akademi	2021

Qualified **CSIR-JRF** (through national eligibility test) held on June 2002, and qualified for Shyam Prasad Mukherjee (**SPM**) fellow ship test

13. **Molecular Biology:** Cloning, DNA isolation from bacteria, PCR, bacterial transformation, preparation of competent cells, agarose gel electrophoresis and DNA sequencing.

Biochemistry: Protein expression, purification and characterization using biophysical techniques, SDS-PAGE, western blot, site-directed mutagenesis, enzyme assays and protein crystallization.

Instrumentation: I have hands on experience on the following instruments:

- UV-Vis spectroscopy
- Fluorescence spectroscopy: Steady state fluorescence, fluorescence anisotropy
- Isothermal titration calorimetry (ITC)
- Differential scanning calorimetry (DSC)
- HPLC, FPLC
- Inductively coupled mass spectroscopy (ICP-MS)
- AKTA purification system
- CD spectroscopy
- Synergy H4 micro plate reader

Software: Microsoft Office, PYMOL, Origin, Sigma Plot, Chem Draw, End Note.