

BIO-DATA OF Dr. K. PRASHANTHI

1. Name	:	Dr. K. Prashanthi
2. Correspondence Address	:	Dept of Biotechnology Faculty of Life and Health Science, M S Ramaiah University of Applied Sciences, University House, Gnanagangothri Campus, New BEL Road, M S R Nagar, Bangalore, Karnataka, INDIA - 560 054.
3. Email ID	:	prashanthi.bt.ls@msruas.ac.in , karyalaprashanthi@gmail.com
4. Contact Number	:	Landline: +9180- 4536 6666 Extn: 719 Mob: +91-9900130316
5. Institution	:	Dept of Biotechnology Faculty of Life and Health Science, M S Ramaiah University of Applied Sciences, University House, Gnanagangothri Campus, New BEL Road, M S R Nagar, Bangalore, Karnataka, INDIA – 560 054.
6. Date of Birth	:	22/01/1977
7. Gender	:	Female
8. Category	:	General
9. Whether Differently Disabled	:	No
10. Academic Qualifications	:	

S.No	Degree	Year	Subject	University/Institution	% of marks
1	PhD	2008	Virology	Indian Institute of Science, Bengaluru	CGPA: 6.2/8.0
2	Masters in Science	1999	Biochemistry	Sri Krishna Devaraya University, Andhra Pradesh	70.30%
3	Bachelors in Science	1997	Chemistry (Hons)	Sri Sathya Sai Institute of Higher Learning, Andhra Pradesh	CGPA: 4.7/5.0

11. PhD Thesis Title	:	Characterization of the High Level Expression Phenotype of the Cell Line PCX5 and Studies on the Regulation of Rotaviral Gene Expression in Mammalian Cells
12. Guide's Name	:	Prof. C. Durga Rao
13. Institute Name	:	Indian Institute of Science
14. University	:	Indian Institute of Science
15. Year of Award	:	2008
16. Work Experience	:	

S.No	Positions Held	Name of the Institute	From	To
1	Assistant Professor	M S Ramaiah University of Applied Sciences	Oct 2020	Till Date
2	Head & Assistant Professor	Indian Academy Degree College – Autonomous	Sept 2018	Sept 2020
3	Assistant Professor	Indian Academy Degree College – Autonomous	Feb 2014	Sept 2018
4	Post Doctoral Fellow	Indian Institute of Science, Bengaluru	Oct 2008	Jan 2014

17. Professional Recognition and Awards	:	
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S.No.	Name of the Fellowship	Awarding agency	Year
1	Executive Member	Indian Society of Ethology	Jan 2021 onwards
2	Secretary and Life member of IWSA	Indian Women Scientists' Association (IWSA), Bengaluru.	2018 onwards
3	DBT Research Associateship	DBT	July 2009 to Sept 2013
4	CSIR – UGC JRF	CSIR-UGC	2000
5	GATE-99: Percentile Score: 97.71, All India 31 st Rank	GATE-99	1999

6	BoS member for Autonomous and Universities	<ol style="list-style-type: none"> 1. Garden City University 2. Maharani Lakshmi Ammani College 3. St. Joseph's College Autonomus 4. Mount Carmel College Autonomus 	For the past 2 years
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5. Publications	:	
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National Conference Papers:

1. Christopher Bathula and Karyala Prashanthi. Dengue Virus – Human Protein Interactome, Proceedings of the National Conference: Confluence 2015 – A Systems Biology Approach, Pg 14, ISBN No. 978-81-920859-9-10. @ Department of Biotechnology (DBT), Government of India, Sponsored two days national conference on “Confluence – A System Biology Approach” on 24th – 25th April 2015 at Indian Academy Degree College, Bangalore-43, India
2. Aditya Narayan Singh, Yaran Allamyradov, Prashanthi Karyala, Malathi R. (2019) Correlation of serum creatinine, BUN and BUN: Creatinine ratio with the renal health, International Journal of Pharmacy and Biological Sciences. IJPBS, Volume 9, Special Issue 1- NCBTIL: 137-142.

International Conference Papers:

1. Paper presentation: “Systems Biology of Host Pathogen Interaction” at an International Conference: Leadership for Sustainable Socio-Ecological Systems, during 23rd – 25th July 2016, at Vignan University, Guntur
2. “Research Funding Opportunities for Medical Students and Faculty” at the International Conference on Subsuming Research In Medical Education RIMED – 2018, during 22nd – 23rd July 2018, at Sree Balaji Medical College & Hospital, Chennai
3. Poster presentation: “Differential expression of deubiquitinating enzymes and its related DNA damage response genes in neuroblastoma heterogeneity”. Presented at 17th INTERNATIONAL CONGRESS FOR RADIATION RESEARCH DURING 27th – 30th August 2023 at Montreal, Quebec, Canada

4. Poster presentation: “Bioinformatics -based analysis towards targetable deubiquinating enzymes in colorectal cancer radiation therapy.” Presented at the at 17th INTERNATIONAL CONGRESS FOR RADIATION RESEARCH DURING 27th – 30th August 2023 at Montreal, Quebec, Canada

National Journal Papers:

1. Malathi Rajendran, Prashanthi K, Karthikeyan J. (2019). Molecular docking of fisetin as a multi-target drug in the treatment of Parkinson’s disease, *Journal of Drug Delivery and Therapeutics*. 2019; 9(1-s):1-4.

International Journal Papers:

1. Karyala, Prashanthi and Namsa, Nima D and Chilakalapudi, Durga Rao (2010) Translational Up-Regulation and High-Level Protein Expression from Plasmid Vectors by mTOR Activation via Different Pathways in PC3 and 293T Cells. In: *PLoS One*, 5 (12).
2. Mukherjee, S., Sambarey, A., Prashanthi, K. and Chandra, N. (2013), Current trends in modeling host–pathogen interactions. *WIREs Data Mining Knowl Discov*, 3: 109–128. doi: 10.1002/widm.1085
3. Awanti Sambarey, Karyala Prashanthi and Nagasuma Chandra. Mining large-scale response networks reveals ‘topmost activities’ in *Mycobacterium tuberculosis* infection. *Scientific Reports*, 3: 2302, DOI: 10.1038/srep02302.
4. Karyala P, Metri R, Bathula C, Yelamanchi SK, Sahoo L, et al. (2016) DenHunt - A Comprehensive Database of the Intricate Network of Dengue-Human Interactions. *PLOS Neglected Tropical Diseases* 10(9): e0004965. <https://doi.org/10.1371/journal.pntd.0004965>.
5. Rohith Kumar Guddeti, Perna Bali, Prashanthi Karyala, Suresh B. Pakala, (2019) MTA1 coregulator regulates LDHA expression and function in breast cancer, *Biochemical and Biophysical Research Communications*, Volume 520, Issue 1, 54-59,ISSN 0006-291X.
6. Jit Gorla, Shilpa Sarkar, Malathi R, Selvam Arjunan, K Prashanthi (2020) Molecular Docking of Plant Flavonoids: Myricetin, Quercetin and Kaempferol, on Human MAOA as MultiDrug Target to reduce Stress and Depression., *J. Global Trends Pharm Sci*, 2020; 11 (3): 8127 – 8132.
7. Guddeti, R.K., Thomas, L., Kannan, A., Karyala, P. and Pakala, S.B. (2021), The chromatin modifier MORC2 affects glucose metabolism by regulating the expression of lactate dehydrogenase A through a feed forward loop with c-Myc. *FEBS Lett* <https://doi.org/10.1002/1873-3468.14062>
8. Patel A, Rajendran M, Shah A, Patel H, Pakala SB, Karyala P. Virtual screening of curcumin and its analogs against the spike surface glycoprotein of SARS-CoV-2 and SARS-CoV. *J Biomol Struct Dyn*. 2021 Jan 5:1-9. doi: 10.1080/07391102.2020.1868338.

9. Hafsa Bahaar, S. Giridhar Reddy, B. Siva Kumar, K. Prashanthi, H. C. Ananda Murthy, (2023) Modified Layered Double Hydroxide – PEG Magneto-Sensitive Hydrogels with Suitable Ligno-Alginate Green Polymer Composite for Prolonged Drug Delivery Applications. *Engineered Science*, 24, 914
10. Reddy, S. G., Kumar, B. S., Prashanthi, K., & Murthy, H. A. (2023). Fabricating transdermal film formulations of montelukast sodium with improved chemical stability and extended drug release. *Heliyon*, 9(3).
11. Guddeti, R. K., Pacharla, H., Yellapu, N. K., Karyala, P., & Pakala, S. B. (2023). MORC2 and MAX contributes to the expression of glycolytic enzymes, breast cancer cell proliferation and migration. *Medical Oncology*, 40(3), 102.
12. Saroha, H. S., Kumar Guddeti, R., Jacob, J. P., Kumar Pulukuri, K., Karyala, P., & Pakala, S. B. (2022). MORC2/ β -catenin signaling axis promotes proliferation and migration of breast cancer cells. *Medical Oncology*, 39(9), 135.
13. Thomas L, Chutani N, R K, Nair AS, Yellapu NK, Prashanthi K, Pakala SB. Microorchidia 2/Histone Deacetylase 1 Complex Regulates E-cadherin Gene Expression and Function. *Biochem J*. 2023 Oct 10:BCJ20230304. doi: 10.1042/BCJ20230304. Epub ahead of print. PMID: 37815456.

Book Chapters:

1. Karyala Prashanthi and Nagasuma Chandra. Host–Pathogen Interactions. Springer Reference. Biomedical and Life Sciences. Encyclopedia of Systems Biology. <http://www.springerreference.com/docs/html/chapterdbid/306222.html>
2. Venkata Krishna Bayineni, Sonu Krishankumar, Shyam S Kurup, Prashanthi Karyala. Antiviral Effects of Probiotic Metabolic Products and Herbal Extracts Against Coronavirus. COVID-19: Many Facets and Dimension – A Multidisciplinary Compendium of Current Evidence and Experience.
3. Rhea Conchita Gonsalves, Himavani Pacharla, Sai Manohar, Siva Kumar Belliraj, Ekta Tripathi, Prashanthi Karyala, Suresh B. Pakala, Chapter 11 - SARS-CoV-2—host cell interactions and pathways: understanding its physiology, pathology, and targeted drug therapy, Editor(s): Buddolla Viswanath, *Pandemic Outbreaks in the 21st Century*, Academic Press, 2021, Pages 185-210, ISBN 9780323856621, <https://doi.org/10.1016/B978-0-323-85662-1.00006-9>.
4. Gonsalves, R. C., E. Tripathi, Karyala, P., Dwarakanath, B. S., Kumar, V., Targeting Signaling Pathways in Cancer Stem Cells for Therapy of Cancer. *Handbook of Oxidative Stress in Cancer: Therapeutic Aspects*. Singapore, Springer Singapore: 1-18.
5. Achala Anand, N S Amanda Thilakarathna, Suresh B Pakala, Ahalya N, Prashanthi Karyala, Vivek Kumar , B.S Dwarakanath, *Bioinformatics approaches to the understanding of Notch*

signalling in the biology of stem cells. Computational Biology for Stem Cell Research. Elsevier. Accepted and to be published in January.

Online Popular Article:

1. Prashanthi Karyala and Sarita Kamat (2020), Online education in India — the good, the bad and the ugly! published online in India Bioscience columns on 23rd Sept 2020 (<https://indiabioscience.org/columns/education/online-education-in-india-the-good-the-bad-and-the-ugly>) and on 5th Oct 2020 COVID Gyan website (<https://covid-gyan.in/article/online-education-india%E2%80%89%E2%80%94%E2%80%89-good-bad-and-ugly>)

6. Projects

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1. Project Co-ordinator, DBT Star College Scheme, for four departments (Biochemistry, Biotechnology, Chemistry, Microbiology), at Indian Academy Degree College (Grant amount: Rs.82 lakhs). Grant Agency: Department of Biotechnology, Govt. of India. San Order No.: BT/HRD/11/018/2018.
2. Project Co-ordinator.: “Establishing the Facility for Molecular Biology and Bioinformatics Research: Discovery and Development of Novel Biopharmaceuticals from the Broad Diversity of Snake Venoms”. Vision Group of Science and Technology (VGST), Govt. of Karnataka. GRD 187
3. Development of One Time Multi-Color Chart Detection of Dengue Virus Using Mobile Camera Analysis via DNA Label Free Probe To develop a camera based diagnostic tool for Dengue 2 detection, Karnataka State Council for Science and Technology (KSCST) Student Project Programs - 45S_MSc_106, 01-Jan-2022 to 30-Jun-2022
4. Validation of One-Time Color Chart for Detection of Dengue Virus using a DNA Label Free Probe To validate the camera based diagnostic tool for Dengue 2 detection, Karnataka State Council for Science and Technology (KSCST) Student Project Programs - 46S_MSc_058, 01-Jan-2023 to 30-Jun-2023

7. Any other information	:	
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Training & Workshop Attended for skill development:

1. Attended and presented poster at the EMBO-India Bioscience Young Scientists Networking Meeting 2013.
2. Attended the Winter School on “Winter School on Quantitative Systems Biology 2015” organised by the International Center for Theoretical Physics.
3. Poster presentation: “Study of COMT Val158Met polymorphism on the indices of Working Memory” at the 6th Asian Chromatin Meeting, during 3rd – 5th March 2017 at CCMB, Hyderabad.
4. Attended a Regional Workshop: Research Based Pedagogical Tools organized by IISER Pune, during 4th – 6th October 2018, at St. Joseph’s College Autonomous, Bangalore.
5. Attended a Level 1 - Science Journalism Workshop, organized by IISER Pune and Newton Bhabha Fund of British Council, during 12th – 15th November 2018, at National Center for Biological Sciences, Bangalore.

Conferences and Workshops organized:

1. Department of Biotechnology (DBT), Government of India, Sponsored two days national conference on “Confluence – A System Biology Approach” on 24th – 25th April 2015 at Indian Academy Degree College, Bangalore-43, India. Organizing Secretary
2. Co-ordinator for Science Academies’ Lecture Workshop: “New Horizons in Chemical and Biochemical Sciences” held at Indian Academy Degree College - Autonomous during 22nd – 23rd September 2016
3. Co-ordinator for Science Academies’ Lecture Workshop: “Cognitive and Behavioral Sciences” held at Indian Academy Degree College - Autonomous during 4th – 5th October 2018.
4. Co-ordinator of the workshop “Molecular Docking Studies in Drug Discovery” organized on 7th May 2019 @ Indian Academy Degree College - Autonomous.
5. Co-ordinator for DBT Star College sponsored National Symposium on “Recent Advances at the Interface between Chemical & Biological Sciences” organized at Indian Academy Degree College - Autonomous, on 29th July 2019.
6. Co-ordinator for the International Webinar Series “Trends on Biochemical Research”, organized at Indian Academy Degree College – Autonomous on 3rd July 2020.
7. Co-ordinator for the International Webinar Series on “Recent Advances in Drug Discovery and Pharmaceutical Sciences” organized by Dept of Biochemistry, IADC-A and Dept of Biotechnology, Department of Biotechnology, B.M.S College of Engineering in collaboration with Indian Women Scientist Association, Bengaluru branch on 7th – 10th Oct 2020