Curriculum Vitae

Prof. Pakala Suresh Babu
Dept of Biochemistry, School of Life Sciences
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Academic Appointments

Professor (June 2025- to date)-	Dept. of Biochemistry, University of Hyderabad
Associate Professor (2022-2025)-	Dept. of Biochemistry, University of Hyderabad
Assistant Professor (2016- 2022)	IISER Tirupati
UGC-Assistant Professor (2014-2016)-	Sri Krishnadevaraya University, Ananthapuram

Postdoctoral Experience

Postdoctoral Scientist (2009-2013)-	The George Washington University Medical Center, Washington DC, USA
Postdoctoral Scientist (2007-2009)-	The University of Texas M.D. Anderson Cancer Center, Houston TX, USA
Postdoctoral Fellow (2006-2007)-	The University of Tennessee Health Science Center, Memphis, TN, USA

Academic qualifications

Ph.D. (2006)	Biochemistry Sri Krishnadevaraya University, Anantapur, India
M.Sc. (1999)	Biochemistry Sri Krishnadevaraya University, Anantapur, India

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Selected Publication

1. Yakkala HN, Madikonda AK, Behera SR, Pillalamarri V, Mohammad KG, Dhurve G, Tammineni P, **Pakala SB**, Siddavattam D. A leucine responsive small RNA AbcR200 regulates expression of the lactate utilization (lut) operon in Acinetobacter baumannii DS002. J Biol Chem. 2025 Feb;301(2):108160.
2. Mohapatra B, **Pakala SB**. Emerging roles of the chromatin remodeler MORC2 in cancer metabolism. Med Oncol. 2024 Aug 8;41(9):221.
3. Chutani N, Ragula S, Syed K, **Pakala SB**. Novel Insights into the Role of Chromatin Remodeler MORC2 in Cancer. Biomolecules. 2023 Oct 15;13(10):1527.
4. Thomas L, Chutani N, R K, Nair AS, Yellapu NK, Karyala P, **Pakala SB.** Microrchidia 2/histone deacetylase 1 complex regulates E-cadherin gene expression and function. Biochem J. 2023 Oct 31;480(20):1675-1691.
5. Guddeti RK, Pacharla H, Yellapu NK, Karyala P, **Pakala SB**. MORC2 and MAX contributes to the expression of glycolytic enzymes, breast cancer cell proliferation and migration. Med Oncol. 2023 Feb 21;40(3):102.

6. Saroha HS, Kumar Guddeti R, Jacob JP, Kumar Pulukuri K, Karyala P, **Pakala SB**. MORC2/β-catenin signaling axis promotes proliferation and migration of breast cancer cells. Med Oncol. 2022 Jun 21;39(9):135.
7. Chutani N, Singh AK, Kadumuri RV, **Pakala SB***, Chavali S. Structural and Functional Attributes of Microrchidia Family of Chromatin Remodelers. J Mol Biol. 2022 Jul 30;434(14):167664.(*co-corresponding author)
8. Guddeti RK, Chutani N, **Pakala SB.** MORC2 Interactome: Its Involvement in Metabolism and Cancer. Biophys Rev. 2021 Jun 4;13(4):507-514.
9. Guddeti RK, Bali P, Karyala P, **Pakala SB**. MTA1 coregulator regulates LDHA expression and function in breast cancer. Biochem Biophys Res Commun. 2019 Nov 26;520(1):54-59.
10. Chalakur-Ramireddy NKR, **Pakala SB**. Combined drug therapeutic strategies for the effective treatment of Triple Negative Breast Cancer. Biosci Rep. 2018 Jan 30;38(1):BSR20171357.
11. Yellapu NK, Pulaganti M, **Pakala SB**. Bioinformatics exploration of PAK1 (P21-activated kinase-1) revealed potential network gene elements in breast invasive carcinoma. J Biomol Struct Dyn. 2017 Aug;35(10):2269-2279.
12. Li DQ, **Pakala SB***, Reddy SD, Peng S, Balasenthil S, Deng CX, Lee CC, Rea MA, Kumar R. Metastasis-associated protein 1 is an integral component of the circadian molecular machinery. Nat Commun. 2013;4:2545.(*Equal first author)
13. Horvath A, **Pakala SB***, Mudvari P, Reddy SD, Ohshiro K, Casimiro S, Pires R, Fuqua SA, Toi M, Costa L, Nair SS, Sukumar S, Kumar R. Novel insights into breast cancer genetic variance through RNA sequencing. Sci Rep. 2013;3:2256. (*Equal first author)
14. **Pakala SB***, Rayala SK, Wang RA, Ohshiro K, Mudvari P, Reddy SD, Zheng Y, Pires R, Casimiro S, Pillai MR, Costa L, Kumar R. MTA1 promotes STAT3 transcription and pulmonary metastasis in breast cancer. Cancer Res. 2013 Jun 15;73(12):3761-70. (*Co-corresponding author)
15. Li DQ, Nair SS, Ohshiro K, Kumar A, Nair VS, **Pakala SB**, Reddy SD, Gajula RP, Eswaran J, Aravind L, Kumar R. MORC2 signaling integrates phosphorylation-dependent, ATPase-coupled chromatin remodeling during the DNA damage response. Cell Rep. 2012 Dec 27;2(6):1657-69.
16. **Pakala SB**, Nair VS, Reddy SD, Kumar R. Signaling-dependent phosphorylation of mitotic centromere-associated kinesin regulates microtubule depolymerization and its centrosomal localization. J Biol Chem. 2012 Nov 23;287(48):40560-9.
17. Nair SS, Bommana A, **Pakala SB**, Ohshiro K, Lyon AJ, Suttiprapa S, Periago MV, Laha T, Hotez PJ, Bethony JM, Sripa B, Brindley PJ, Kumar R. Inflammatory response to liver fluke Opisthorchis viverrini in mice depends on host master coregulator MTA1, a marker for parasite-induced cholangiocarcinoma in humans. Hepatology. 2011 Oct;54(4):1388-97.
18. Li DQ, **Pakala SB**, Reddy SD, Ohshiro K, Zhang JX, Wang L, Zhang Y, Moreno de Alborán I, Pillai MR, Eswaran J, Kumar R. Bidirectional autoregulatory mechanism of metastasis-associated protein 1-alternative reading frame pathway in oncogenesis. Proc Natl Acad Sci U S A. 2011 May 24;108(21):8791-6.
19. **Pakala SB**, Singh K, Reddy SD, Ohshiro K, Li DQ, Mishra L, Kumar R. TGF-β1 signaling targets metastasis-associated protein 1, a new effector in epithelial cells. Oncogene. 2011 May 12;30(19):2230-41.
20. Ghanta KS, **Pakala SB***, Reddy SD, Li DQ, Nair SS, Kumar R. MTA1 coregulation of transglutaminase 2 expression and function during inflammatory response. J Biol Chem. 2011 Mar 4;286(9):7132-8. (*Equal first author)

21. **Pakala SB**, Reddy SDN, Bui-Nguyen TM, Rangparia SS, Bommana A, Kumar R. MTA1 coregulator regulates LPS response via MyD88-dependent signaling. J Biol Chem. 2010 Oct 22;285(43):32787-32792.
22. Kumar R, Balasenthil S, Manavathi B, Rayala SK, **Pakala SB**. Metastasis-associated protein 1 and its short form variant stimulates Wnt1 transcription through promoting its derepression from Six3 corepressor. Cancer Res. 2010 Aug 15;70(16):6649-58.
23. Li DQ, **Pakala SB***, Reddy SDN, Ohshiro K, Peng SH, Lian Y, Fu SW, Kumar R. Revelation of p53-independent function of MTA1 in DNA damage response via modulation of the p21 WAF1-proliferating cell nuclear antigen pathway. J Biol Chem. 2010 Mar 26;285(13):10044-10052. (*Equal first author)
24. Bui-Nguyen TM, **Pakala SB***, Sirigiri RD, Xia W, Hung MC, Sarin SK, Kumar V, Slagle BL, Kumar R. NF-kappaB signaling mediates the induction of MTA1 by hepatitis B virus transactivator protein HBx. Oncogene. 2010 Feb 25;29(8):1179-89. (*Equal first author)
25. **Pakala SB**, Gorla P, Pinjari AB, Krovidi RK, Baru R, Yanamandra M, Merrick M, Siddavattam D. Biodegradation of methyl parathion and p-nitrophenol: evidence for the presence of a p-nitrophenol 2-hydroxylase in a Gram-negative Serratia sp. strain DS001. Appl Microbiol Biotechnol. 2007 Jan;73(6):1452-62.

Research Guidance

PhD

1. Dr. Guddeti Rohit Kumar (Awarded 2022)
2. Dr. Indravathi (Awarded 2022)
3. Dr. Liz Thomas (Awarded, 2024)
4. Namita Chutani (In progress)
5. Sandhya Ragula (In progress)
6. Bibhukalyan Mahapatra (In progress)
7. Rajashree Rajasmita Dehury (In progress)
8. Md Nayab Chisthi (In progress)

MS Thesis

1. Ardra-2021
2. Himanshu-2022
3. Niteesh Babu- 2023
4. Kiran Podem-2024
5. Shahel -2024
6. Gouri Priya-2024
7. Shaharbanu-2024
8. Nitin Bhausaheb- 2025
9. Chirantani Halder- 2025
10. Chhavi Mishra-2025

Google Scholar: Citations

https://scholar.google.com/citations?user=O7u8CHwAAAAJ&hl=en

Citations:	2859
h-index:	32
i10-index	46