

List of peer reviewed research papers in International journals:

1. **Krishna Kurthkoti**, Hamel Amin, Mohlopheni Marakalala, Saleena Ghanny, Selvakumar Subbian, Alexandra Sakatos, Jonathan Livny, Sarah Fortune, Michael Berney and G Marcela Rodriguez (2017). Mycobacterium tuberculosis' capacity to survive iron-starvation might enable it to persist in iron-deprived microenvironments of human granulomas. *mBio*, Vol 8 e01092
2. Xiao Peng Xiong, **Krishna Kurthkoti**, Kungyen Chang, Jian-Liang, Ren Xing Jie Nij Q Tariq Rana, Rui Zhou (2016). miR-34 Modulates Innate Immunity and Ecdysone Signalling in Drosophila *PLoS Pathogens* doi:10.1371/journal.ppat.1006034
3. **Kurthkoti K**, Priyanka Tare, Rakhi Paitchowdhury, Vaikuntanaga Gowthami Maria J. Garcia, Roberto Colangeli Dipankar Chatterji, Valakunja Nagaraja, G. Marcela Rodriguez. (2015). The mycobacterial iron dependent regulator IdeR induces ferritin (*bfrB*) by alleviating Lsr2 repression. *Molecular Microbiology* 98(5):864-77
4. Xiao-Peng Xiong, Georg Vogler, **Krishna Kurthkoti**, Anastasia Samsonova, Rui Zhou (2015). SmD1 modulates the miRNA pathway independently of its pre-mRNA splicing function. *PLoS Genetics* doi:10.1371/journal.pgen.1005475
5. Xiong XP, **Kurthkoti K**, Chang KY, Lichinchi G, De N, Schneemann A, Macrae IJ, Rana TM, Perrimon N, Zhou R (2013). Core small nuclear ribonucleoprotein particle splicing factor SmD1 modulates RNA interference in Drosophila. *Proc Natl Acad Sci U S A*, 110(41):16520-5
6. Rex K, **Kurthkoti K**, Varshney U. (2013). Hypersensitivity of hypoxia grown Mycobacterium smegmatis to DNA damaging agents: Implications of the DNA repair deficiencies in attenuation of mycobacteria. *Mech Ageing Dev*, 134(10): 516-22.
7. Parikh A, Kumar D, Chawla Y, **Kurthkoti K**, Khan S, Varshney U, Nandicoori VK (2013) Development of new generation of vectors for gene expression, gene replacement and protein-protein interaction studies in mycobacteria. *Appl Environ Microbiol*, 79(5):1718-29.
8. **Kurthkoti K** and Umesh Varshney. (2012). Distinct mechanisms of DNA repair in mycobacteria and their implications in attenuation of the pathogen growth. *Mechanisms of Aging and Development* 133(4):138-46.
9. **Kurthkoti K** and Varshney U. (2011). Base excision and nucleotide excision repair pathways in mycobacteria. *Tuberculosis*, 91(6): 533-43.
10. **Kurthkoti K** and Varshney U. Detrimental effects of hypoxia specific expression of uracil DNA glycosylase (Ung) in *Mycobacterium smegmatis*. (2010). *J Bacteriol*, 192, 6439-46.
11. Malshetty V, **Kurthkoti K**, China A, Mallick B, Yamunadevi S, Sang PB, Srinivasan N, Nagaraja V and Varshney U. (2010). Novel insertion and deletion mutants of RpoB which render *Mycobacterium smegmatis* RNA polymerase recalcitrant to rifampicin mediated inhibition of transcription. *Microbiology* 156, 1565-73.
12. Malshetty VS, Jain R, Srinath T, **Kurthkoti K** and Varshney U. (2010). Synergistic effects of UdgB and Ung in mutation prevention and protection against commonly encountered DNA damaging agents in *Mycobacterium smegmatis* *Microbiology* 156, 940-949.

13. **Kurthkoti K**, Srinath. T, Kumar P., Malshetty VS, Sang PB, Jain R, Manjunath R and Varshney U. A distinct physiological role of MutY in mutation prevention in mycobacteria. **(2010)**. *Microbiology*, **156**, 88-93.
14. **Kurthkoti K**, Kumar P, Jain R. andVarshney U. **(2008)**. Important role of the nucleotide excision repair pathway in *Mycobacterium smegmatis* in conferring protection against commonly encountered DNA-damaging agents. *Microbiology***154**, 2776-2785.
15. Kumar P, **Krishna K**, Srinivasan R, Ajitkumar P and Varshney U.**(2004)**. *Mycobacterium tuberculosis* and *Escherichia coli* nucleoside diphosphate kinases lack multifunctional activities to process uracil containing DNA. *DNA Repair***3**, 1483-1492.