

PUBLICATIONS:

1. Gayathri K.G., Puja Laxmanrao Shinde, Sebastian John, Sivakumar K. C., and **Rashmi Mishra***.(2023)Understanding the Combined Effects of High Glucose Induced Hyper- Osmotic Stress and Oxygen Tension in the Progression of Tumourigenesis: From Mechanism to Anti- Cancer Therapeutics. **Cells**, 7 March 2023, 12, no. 6: 825. <https://doi.org/10.3390/cells12060825>. (Impact factor: 7.666) *Corresponding author
2. Sebastian John, K.G, Gayathri, Krishna, AP, **Rashmi Mishra*** (2022). Neurotherapeutic implications of sense and respond strategies generated by astrocytes and astrocytic tumours to combat pH mechanical stress. **Neuropathology and Applied Neurobiology**. DOI:10.1111/nan.12774 (Impact factor: 8.090, CiteScore 11.5) *Corresponding author
3. Krishna, A.P., Sebastian John, Shinde, P.L. and **Rashmi Mishra*** (2021). Proteo- transcriptomics meta-analysis identifies SUMO2 as a promising target in glioblastoma multiforme therapeutics. **Cancer Cell International**,21,575. DOI: 10.1186/s12935-021-02279-y (Impact factor: 6.72) *Corresponding author
4. Sebastian John, KC Sivakumar and **Rashmi Mishra*** (2017). Bacoside A induces tumour cell death in human glioblastoma cell lines through catastrophic macropinocytosis. **Frontiers in Molecular Neuroscience**, Jun 10 (171), 1-22.DOI:10.3389/fnmol.2017.00171(Impact factor:6.2, CiteScore 8.56) *Corresponding author
5. Sebastian John, KC Sivakumar and **Rashmi Mishra*** (2017). Extracellular proton concentrations impacts LN229 glioblastoma tumour cell fate via differential modulation of surface lipids. **Frontiers in Oncology**. Mar 7(2), 1-23. DOI: 10.3389/fonc.2017.0002.(Impact factor: 6.244) *Corresponding author

6. Sebastian John and **Rashmi Mishra*** (2017). mRNA transcriptomics of galectins unveils heterogenous organisation in mouse and human brain. **Frontiers in Molecular Neuroscience**. Dec 9(139), 1-23. DOI:10.3389/fnmol.2016.00139 (Impact factor: 6.2, CiteScore 8.56)

*Corresponding author

7. Sebastian John and **Rashmi Mishra*** (2016). Galectin-9: From cell biology to complex disease dynamics. **Journal of Bioscience**; 41(3):507-34. (Impact factor: 2.76) *Corresponding author

8. **Rashmi Mishra***, M Grzybek, T Niki, M Hirashima, K Simons (2010). Galectin-9 trafficking regulates apical-basal polarity in Madin–Darby canine kidney epithelial cells. **Proceedings of the National Academy of Sciences (PNAS)**; 107 (41), 17633-17638, <https://doi.org/10.1073/pnas.1012424107> (Impact factor:11.2) *First author

9. T Horlacher, MA Oberli, DB Werz, L Kröck, S Bufali, **Rashmi Mishra**, J Sobek, Peter Seeberger (2010). Determination of Carbohydrate-Binding Preferences of Human Galectins with Carbohydrate Microarrays. **ChemBioChem**; 11 (11), 1563-1573,63. 10.1002/cbic.201000020 (Impact factor:3.76)

10. SK Gupta*, **Rashmi Mishra***, S Kusum, M Spedding, KF Meiri, P Gressens, S Mani (2009). GAP-43 is essential for the neurotrophic effects of BDNF and positive AMPA receptor modulator S18986. **Cell Death & Differentiation**; 16 (4), 624-637,2009, 10.1038/cdd.2008.188 (Impact factor:15.82)

*Equal First author

11. Y Shen*, **Rashmi Mishra***, S Mani, KF Meiri (2008). Both cell-autonomous and cell non- autonomous functions of GAP-43 are required for normal patterning of the cerebellum in vivo. **The Cerebellum**; 7 (3), 451-466, 2008, 10.1007/s12311- 008-0049-5 (Impact factor:3.84)

*Equal First author

12. SK Gupta*, **Rashmi Mishra***, D Juncker, KF Meiri, S Mani (2008). Addressing the role of extrinsic cues in neuronal polarization. **Developmental Biology**; 319 (2). 10.1016/j.ydbio.2008.05.124 (Impact factor:3.58)

*Equal First author

13. **Rashmi Mishra***, S Kumar Gupta, KF Meiri, M Fong, P Thostrup, D Juncker, S Mani (2008). GAP-43 is key to mitotic spindle control and centrosome-based polarization in neurons. **Cell Cycle**; 7 (3), 348-357. 10.4161/cc.7.3.5235 (Impact factor:5.0)

*First author

14. **Rashmi Mishra***, S Mani. Role of GAP-43 in early cerebellar patterning. **Developmental Biology**; 2 (247), 491-491(Impact factor:3.58) *First author

Listen to Dr. Mishra's postdoctoral work from Prof. Kai Simons (the membrane master) at: <https://www.ibiology.org/cell-biology/lipid-rafts/#part-3>