

List of publications

1. Rajam, S. M., Varghese, P. C., Dutta, D*. Histone Chaperones as Cardinal Players in Development. *Front. Cell Dev. Biol.* 10:767773 (2022). **IF- 6.684**
2. Varghese, P. C., Rajam, S. M., Nandy, D., Jory, A., Mukherjee, A. & Dutta D*. Histone chaperone APLF level dictate implantation of mouse embryo. *J. Cell Sci.* 134, jcs246900 (2021). **IF-5.285**
3. Nandy, D., Rajam, S. M. & Dutta, D*. A three layered histone epigenetics in breast cancer metastasis. *Cell Biosci.* 10, 52 (2020). **IF-7.133**
4. Majumder, A., Dharan, A. T., Baral, I., Varghese, P. C., Mukherjee, A, Lakshmi, S., Geetha, N. & Dutta, D*. Histone chaperone HIRA dictate proliferation vs differentiation of chronic myeloid leukemia cells. *FASEB Bioadv.* 1, 525-537 (2019).
5. Majumder, A., Syed, K. M., Mukherjee, A., Lankadasari, M. B., Azeez, J. M., Sreeja, S., Harikumar, K. B., Pillai, M. R. & Dutta, D*. Enhanced expression of histone chaperone APLF associate with breast cancer. *Mol. Cancer* 17, 76 (2018). **IF-27.401**
6. Dutta, D*. Histone chaperone in regulation of cellular metabolism dictating stem cell fate? *Stem Cell Investig.* 4, 50 (2017).
7. Syed, K. M., Joseph, S., Mukherjee, A., Majumder, A., Teixeira, J. M., Dutta, D.*, & Pillai, M. R. Histone chaperone APLF regulates induction of pluripotency in murine fibroblasts. *J. Cell Sci.* 129, 4576-4591 (2016). **IF-5.285**
8. Kochurani, K. J., Suganya, A. A., Nair, M. G., Louis, J. M., Majumder, A., Kumar, S. K., Abraham, P., Dutta, D. & Maliekal, T. T. Live detection and purification of cells based on the expression of a histone chaperone, HIRA, using a binding peptide. *Sci. Rep.* 5, 17218. (2015). **IF-4.379**
9. Majumder, A., Syed, K. M. & Joseph, S., Scambler, P. J. & Dutta, D*. Histone Chaperone HIRA in Regulation of Transcription Factor RUNX1. *J. Biol. Chem.* 290, 13053-13063. (2015). **IF-5.157**
10. Dutta, D*. Signaling pathways dictating pluripotency in Embryonic Stem cells. *Int. J. Dev. Biol.* 57, 667-675 (2013). **IF- 2.203**
11. Rajendran, G. #, Dutta, D. #, Hong, J., Paul, A., Saha, B., Mahato, B., Ray, S., Home, P., Ganguly, A., Weiss, M. L. & Paul, S. Inhibition of protein kinase C signaling maintains rat embryonic stem cell pluripotency. *J. Biol. Chem.* 288, 24351-24362 (2013). **IF-5.157**
12. Hong, J., He, H., Bui, P., Ryba-White, B., Rumi, M. A., Soares, M. J., Dutta, D., Paul, S., Kawamata, M., Ochiya, T., Ying, Q. L., Rajanahalli, P. & Weiss, M. L. A focused microarray for screening rat embryonic stem cell lines. *Stem Cells Dev.* 22, 431-443. (2013). **IF- 3.272**
13. Home, P., Saha, B., Ray, S., Dutta, D., Gunewardena, S., Yoo, B., Pal, A., Vivian, J. L., Larson, M., Petroff, M. et al. Altered subcellular localization of transcription factor TEAD4 regulates first mammalian cell lineage commitment. *Proc. Natl. Acad. Sci. USA* 109, 7362-7367 (2012). **IF-11.205**
14. Dutta, D., Ray, S., Home, P., Larson, M., Wolfe, M. W. & Paul, S. Self Renewal vs. Lineage Commitment of Embryonic Stem Cells: Protein Kinase C Signaling Shifts the Balance. *Stem Cells* 29, 618-628 (2011). **IF-6.277**
15. Paul, A., Samaddar, N., Dutta, D., Bagchi, A., Chakravorty, S., Chakraborty, W. & Gachhui, R. Mercuric Ion Stabilizes Levansucrase Secreted by *Acetobacter nitrogenifigens* Strain RG1(T). *Protein J.* 30, 262-272 (2011). **IF-2.371**
16. Dutta, D., Ray, S., Home, P., Saha, B., Wang, S., Sheibani, N., Tawfik, O., Cheng, N., & Paul, S. Regulation of angiogenesis by histone chaperone HIRA-mediated incorporation of lysine 56-Acetylated histone H3.3 at chromatin domains of endothelial genes. *J. Biol. Chem.* 285, 41567-41577 (2010). **IF-5.157**
17. Ray, S., Dutta, D., Rumi, M. A., Kent, L. N., Soares, M. J. & Paul, S. Context-dependent function of regulatory elements and a switch in chromatin occupancy between GATA3

- and GATA2 regulate Gata2 transcription during trophoblast differentiation. *J. Biol. Chem.* 284, 4977-4988 (2009). **IF-5.157**
18. Home, P., Ray, S., Dutta, D., Larson, M., Illya, B. & Paul, S. GATA3 is selectively expressed in the trophectoderm of peri-implantation embryo and directly regulates Cdx2 gene expression. *J. Biol. Chem.* 284, 28729-28737 (2009). **IF-5.157**
 19. Dutta, D., Ray, S., Vivian, J. L. & Paul, S. Activation of the VEGFR1 chromatin domain: an angiogenic signal-ETS1/HIF-2alpha regulatory axis. *J. Biol. Chem.* 283, 25404-25413 (2008). **IF-5.157**
 20. Dutta, D. & Gachhui, R. Nitrogen-fixing and cellulose-producing *Gluconacetobacter kombuchae* sp. nov., isolated from Kombucha tea. *Int. J. Syst. Evol. Microbiol.* Feb;57(Pt 2), 353-357 (2007). **IF-2.747**
 21. Dutta, D. & Gachhui, R. Novel nitrogen-fixing *Acetobacter nitrogenifigens* sp. nov. isolated from Kombucha tea, *Int. J. Syst. Evol. Microbiol.* 56, 1899-1903 (2006). **IF-2.747**

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Book Chapter

Histone Chaperones Regulate Mammalian Gene Expression by Debasree Dutta, KhajaMohieddin Syed and Ananda Mukherjee in the book "Gene Expression and Regulation in Mammalian Cells - Transcription Toward the Establishment of Novel Therapeutics" edited by Fumiaki Uchiumi, ISBN 978-953-51-3868-6, Print ISBN 978-953-51-3867-9, InTech, February 2, 2018.

List of patents

Compositions and methods for establishing and maintaining stem cells in an undifferentiated state" US patent, Application Number: 2012/0270,313; Publication Date: 25/10/2012