

## Publications

**Total No. 33**

A) International: **32**  
B) National: **1**

### List of Publications:

1. Shankar S, Prasad D, Sanawar R, **Das AV** and Pillai MR. (2017) TALEN-based HPV-E7 editing triggers necrotic cell death in cervical cancer cells. *Sci Rep.* 2017; 7: 5500.
2. Sreekanth S, Rasheed VA, Soundararajan S, Antony J, Saikia M, Sivakumar KC and **Das AV**. (2017) miR Cluster 143/145 Directly Targets Nrl and Regulates Rod Photoreceptor Development. *Molecular Neurobiology*, 54(10):8033-804.
3. Das AV\* and MR Pillai. (2015) Implications of miR cluster 143/145 as universal anti-oncomiRs and their dysregulation during tumorigenesis. *Cancer Cell Int.*, 15 (2015), 92-104. doi: 10.1186/s12935-015-0247-4. \*Corresponding author.
4. M. Sajimol Augustine, Abdulaziz Anas, **Das AV**, Sreekanth S, and Jayalekshmi S. (2015) Cytotoxicity and cellular uptake of ZnS:Mn nanocrystals biofunctionalized with chitosan and aminoacids. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 136 (2015) 327-333.
5. Rasheed VA, Sreekanth S, Dhanesh SB, Divya MS, Divya TS, Akhila PK, Subashini C, Sivakumar KC, **Das AV\*** and James J.(2014) Developmental wave of Brn3b expression leading to RGC fate specification is synergistically maintained by miR-23a and miR-374. *Dev Neurobiol.* 74(12):1155-71. Doi:10.1002/dneu.22191. \*Co-Corresponding author
6. Sreekanth S and **Das AV**. (2012) Functional Evaluation of microRNAs in the Retinal Development: Role of miR Cluster 143/145 in the Regulation of Photoreceptor Differentiation. *Int J Deb Neurosci.* DOI:10.1016/j.ijdevneu.2012.03.257.
7. Ahmad I, Del Debbio CB, **Das AV**, Parameswaran S. (2011) Muller Glia: A promising target for therapeutic regeneration. *Invest Ophthalmol Vis Sci*, Jul; 52(8):5758-64.
8. B.Jagatha, MS. Divya, R.Sanalkumar, CL. Indulekha, S. Vidyanand, TS. Divya, **Das AV** and Jackson James. (2009). In vitro differentiation of retinal ganglion-like cells from embryonic stem cell derived neural progenitors. *Biochem Biophys Res Commun.* Mar 6; 380(2):230-5.
9. Bhattacharya S, **Das AV**, Mallya K and Ahmad I (2008). CNTF-mediated signaling regulates neuronal versus glial differentiation of retinal stem cells/progenitors by concentration-dependant recruitment of MAPK and Jak-STAT pathways in conjunction with Notch signaling. *Stem Cells.* Oct; 26(10): 2611-24.
10. **Das AV**, Bhattacharya S, Zhao X, Hegde G, Mallya K and Ahmad I (2008). The canonical Wnt pathway regulates retinal stem cells/progenitors in concert with Notch signaling. *Dev. Neuroscience.* Nov; 30(6): 389-409.
11. Zhao X, **Das AV**, Bhattacharya S, Mallya KB and Ahmad I. (2008). Generation of neurons with functional properties from limbal epithelium; an autologous cell therapy approach for photoreceptor degeneration. *Stem Cells.* Apr; 26(4):939-49.
12. **Das AV**, James J, Sumitra Bhattacharya, Imbalzano AN, Hegde G, Zhao X, Mallya K, Ahmad F, Knudsen E and Ahmad I. (2007). SWI/SNF Chromatin Remodeling ATPase

- Brn Regulates the Differentiation of Early Retinal Stem Cells/Progenitors by Influencing Brn3b Expression and Notch Signaling. *J. Biol. Chem.* Nov 30; 282(48):35187-201.
13. Bhattacharya S, **Das AV**, Mallya K and Ahmad I. (2007). Maintenance of retinal stem cells by *Abcg2* is regulated by Notch signaling. *J Cell Sci.* Aug 1; 120(Pt 15):2652.
  14. Hegde GV, James J, **Das AV**, Zhao X, Bhattacharya S and Ahmad I. (2007) Characterization of early progenitor micro environment: Presence of activities selective for the differentiation of retinal ganglion cells and maintenance of progenitors. *Exp. Eye Res.* 84(3): 577-590.
  15. **Das AV**, Mallya KB, Zhao X, Ahmad F, Bhattacharya B, Thoreson WB, Hegde GV and Ahmad I. (2006) Neural Stem Cell Properties Of Müller Glia In The Mammalian Retina: Regulation By Notch And Wnt Signaling. *Dev Biol.* 299 (1): 283-302.
  16. **Das VA**, Chathu F, Paulose CS (2006). Decreased alpha(2)-adrenergic receptor in the brain stem and pancreatic islets during pancreatic regeneration in weanling rats. *Life Sci.* 79(16): 1507-13.
  17. **Das VA**, Robinson R, Paulose CS. (2006) Enhanced beta-adrenergic receptors in the brain and pancreas during pancreatic regeneration in weanling rats. *Mol Cell Biochem.* 289(1-2): 11-19.
  18. **Ani Das V**, Savitha B, Paulose CS. (2006) Decreased alpha(1)-Adrenergic Receptor Binding in the Cerebral Cortex and Brain Stem during Pancreatic Regeneration in Rats. *Neurochem Res.* 31(6):727-34.
  19. **Das AV**, Zhao X, James J, Kim M, Cowan KH, Ahmad I. (2006) Neural stem cells in the adult ciliary epithelium express GFAP and are regulated by Wnt signaling. *Biochem Biophys Res Commun.* 339(2):708-16.
  20. **Das AV**, Edakkot S, Thoreson B, James J, Bhattacharya S, Ahmad I (2005) Membrane properties of retinal stem cells/progenitors. *Prog Retin Eye Res.* 24(6): 663-81. Review.
  21. **Das AV**, James J, Rahnenfuhrer J, Thoreson B, Bhattacharya S, Zhao X, Ahmad I (2005) Retinal properties and potential of the adult mammalian ciliary epithelium stem cells. *Vision Res.* 2005 Jun;45(13):1653-66.
  22. Zhao X, **Das AV**, Soto-Leon F, Ahmad I (2005) Growth factor-responsive progenitors in the postnatal mammalian retina. *Dev Dyn.* 2005; 232(2): 349-58.
  23. **Das, AV**, Zhao, X, and Ahmad, I (2005) Stem cell therapy for retinal degeneration: retinal neurons from heterologous sources. *Sem. Ophthalmol.* 20(1): 3-10. Review.
  24. Renuka TR, **Ani Das V**, Paulose CS. (2004) Alterations in the muscarinic M1 and M3 receptor gene expression in the brain stem during pancreatic regeneration and insulin secretion in weanling rats. *Life Sci.* 24;75(19):2269-80
  25. James J, **Das AV**, Rahnenfuhrer J, Ahmad I (2004) Cellular and molecular characterization of early and late retinal stem cells/progenitors: differential regulation of proliferation and context dependent role of Notch signaling. *J Neurobiol.* 61(3): 359-76.
  26. Bhattacharya S, Dooley C, Soto-Leon, F, Madson J, **Das AV**, Ahmad I (2004) Involvement of *Ath3* in CNTF-mediated differentiation of the late retinal progenitors. *Mol Cell Neurosci.* 27(1): 32-43.
  27. **Das AV**, James J, Zhao X, Rahnenfuhrer J, Ahmad I (2004) Identification of c-Kit receptor as a regulator of adult neural stem cells in the mammalian eye: interactions with Notch signaling. *Dev Biol.* 273(1):87-105.
  28. Ahmad I, **Das AV**, James J, Bhattacharya S, Zhao X (2004) Neural stem cells in the mammalian eye: types and regulation. *Semin Cell Dev Biol.* 15(1): 53-62. Review.

29. James J, **Das AV**, Bhattacharya S, Chacko DM, Zhao X, Ahmad I (2003) In vitro generation of early-born neurons from late retinal progenitors. *J Neurosci.* 23(23): 8193-203.
30. Bhattacharya S, Jackson JD, **Das AV**, Thoreson B, Kuszynski C, James J, Joshi S, Ahmad I (2003) Direct identification and enrichment of retinal stem cells/progenitors by Hoechst dye efflux assay. *Invest Ophthalmol Vis Sci.* 44(6): 2764-73.
31. Chacko DM, **Das AV**, Zhao X, James J, Bhattacharya S, Ahmad I (2003) Transplantation of ocular stem cells: the role of injury in incorporation and differentiation of grafted cells in the retina. *Vision Res.* 43(8):937-46.
32. Zhao X, **Das AV**, Thoreson WB, James J, Wattnem TE, Rodriguez-Sierra J, Ahmad I (2002) Adult corneal limbal epithelium: a model for studying neural potential of non-neural stem cells/progenitors. *Dev Biol.* 2002; 15;250(2):317-31.
33. **Das AV**, Padayatti PS, Paulose CS. (1996) Effect of leaf extract of *Aegle marmelose* (L.) Correa ex Roxb. on histological and ultrastructural changes in tissues of streptozotocin induced diabetic rats. *Indian J Exp Biol.* 34(4): 341-5.