

Peer Reviewed Publications

1. Riya PA, Basu B, Surya S, Parvathy S, Lalitha S, Jyothi PN, Meera V, Vishnu SJ, Sunitha P, Shahina A, Rashmi S, Achuthsankar SN, Dhanesh SB, Jiffy J, Shijulal NS, Tessy TM, Das AV and **James J**; HES1 promoter activation dynamics reveal the plasticity, stemness and heterogeneity in neuroblastoma cancer stem cells: *J Cell Sci*, (2022) **135**, jcs260157. doi:10.1242/jcs.260157.
2. Mrunal VW, Vishnu SJ, Sivakumar KC, Riya PA, **James J**, Vinod Kumar GS; Supramolecular Hydrogel Based Post-Surgical Implant System for Hydrophobic Drug Delivery Against Glioma Recurrence: *Int J of Nanomedicine*, **17** (2022): 2203–2224.
3. Sreeja SJ, Jyothy A, Rohith KN, Ghorai S, Riya PA, **James J** & Suparna Sengupta; The centrosomal recruitment of γ -tubulin and its microtubule nucleation activity is α -fodrin guided: *CELL CYCLE* (2022), <https://doi.org/10.1080/15384101.2022.2119516>.
4. Soundararajan Lalitha, Budhaditya Basu, Suresh Surya, Vadakkath Meera, Paul Ann Riya, Surendran Parvathy, Ani Venmanad Das, Krishnankutty Chandrika Sivakumar, Shijulal Nelson-Sathi and **Jackson James**; Pax6 modulates intra-retinal axon guidance and fasciculation of retinal ganglion cells during retinogenesis: *Scientific Reports*, **10**, (2020)16075. <https://doi.org/10.1038/s41598-020-72828-4>
5. Kumar M, John M, Madhavan M, **James J**, Omkumar RV; Alteration in the phosphorylation status of NMDA receptor GluN2B subunit by activation of both NMDA receptor and L-type voltage gated calcium channel: *Neurosci Lett.* (2019) ;**709:134343**. doi: 10.1016/j.neulet.2019.134343.
6. Mundackal Sivaraman Divya, Vazhanthodi Abdul Rasheed, Tiffany Schmidt, Soundararajan Lalitha , Samer Hattar, and **Jackson James**; Intraocular injection of ES cell-derived neural progenitors improve visual function in retinal ganglion cell-depleted mouse models: *Frontiers in Cellular Neuroscience*, **11** (2017) e 295, doi: 10.3389/fncel.2017.00295
7. Chandramohan Subashini, Sivadasan Bindu Dhanesh, Chih-Ming Chen, Paul Ann Riya, Vadakkath Meera, Thulasi Sheela Divya, Rejji Kuruvilla, Kerstin Buttler & **Jackson James**; Wnt5a is a crucial regulator of neurogenesis during cerebellum development: *Scientific Reports*, **7** (2017) 42523; doi: 10.1038/srep42523
8. Sivadasan Bindu Dhanesh, Chandramohan Subashini, Paul Ann Riya, Vazhanthodi Abdul Rasheed & **Jackson James**; Pleiotropic Hes-1 concomitant with its differential activation mediates neural stem cell maintenance and radial glial propensity in developing neocortex: *Cerebral Cortex* **27**(2017) 3943–3961, DOI: 10.1093/cercor/bhw207
9. Thulasi Sheela Divya, Soundararajan Lalitha, Surendran Parvathy, Chandramohan Subashini, Rajendran Sanalkumar1, Sivadasan Bindu Dhanesh, Vazhanthodi Abdul Rasheed, Mundackal Sivaraman Divya, Shubha Tole & **Jackson James**; Regulation of

- Tlx3 by Pax6 is required for the restricted expression of Chrn α 3 in Cerebellar Granule Neuron progenitors during development: **Scientific Reports**, 6 (2016) 30337, DOI: 10.1038/srep30337
10. Sivadasan Bindu Dhanesh, Chandramohan Subashini & Jackson James: Hes1: The maestro in neurogenesis; **Cell. Mol. Life. Sci.**, 73(2016):4019-42, DOI: 10.1007/s00018-016-2277-z.
 11. Anupama Vijayakumar, Aneesh Chandran, Sivadasan Bindu Dhanesh, Jackson James, K. Shivakumar: Molecular mechanisms in H₂O₂-induced increase in AT1 receptor gene expression in cardiac fibroblasts: a role for endogenously generated Angiotensin II; **Journal of Molecular and Cellular Cardiology**, 97 (2016) 295–305.
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 13. Vazhanthodi A Rasheed, Sreekumaran Sreekanth, Sivadasan B Dhanesh, Mundackal S Divya, Thulasi S Divya, Palakkottu K Akhila, Chandramohan Subashini, Krishnankutty Chandrika Sivakumar, Ani V Das & Jackson James. Developmental wave of Brn3b expression leading to RGC fate specification is synergistically maintained by miR-23a and miR-374; **Developmental Neurobiology**, 74 (2014) 1155–1171.
 14. Nishit Srivatsava, Jackson James and KS Narayan. Morphology and electrostatics play active role in neuronal differentiation processes on flexible conducting substrates; **Organogenesis** (2014)10:1, 1-5.
 15. Sasidharan Shashikala, Rohith Kumar, Nisha E. Thomas, Dhanesh Sivadasan, Jackson James and Suparna Sengupta. Fodrinin Centrosomes: Implication of a role of Fodrin in the transport of Gamma-Tubulin Complex in Brain; **PLOS One** 8(2013)e76613.
 16. Nishit Srivastava, Vijay Venugopalan, Divya MS, Rasheed VA, Jackson James[#] and K. S. Narayan[#]. Neuronal differentiation of embryonic stem cell derived neuronal progenitors can be regulated by stretchable conducting polymers; **Tissue Engineering**, 2013, 19(17-18)1984-1993. ^{#Corresponding Authors}.
 17. Mundackal Sivaraman Divya, Roshin Elizabeth George, Thulasi Sheela Divya, Vazhanthodi Abdul Rasheed, Retnabai Thankayyan Santhoshkumar, Kandathil Eapen Elizabeth, Jackson James[#] & Radhakrishna M Pillai. Umbilical Cord blood derived mesenchymal stem cells consist of a unique population of progenitors co-expressing MSC and neuronal markers capable of instantaneous neuronal differentiation; **Stem Cell Research & Therapy**, (2012) 3:57 doi:10.1186/scrt148. ^{#Corresponding Author}.
 18. Praveen K. Sobhan, Mahendra Seervi, Jeena Joseph, Saneesh Varghese, Prakash Rajappan Pillai, Divya Mundackal Sivaraman, Jackson James, Roshin Elizabeth George, K.E. Elizabeth, T.R. Santhoshkumar & M. Radhakrishna Pillai. Immortalized Functional

Endothelial Progenitor Cell Lines from Umbilical Cord Blood for Vascular Tissue Engineering; *Tissue Engineering Part C: Methods*, 2012, Vol. 18, No. 11: 890-902

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20. Lekha Nair K, Vidyanand S, **Jackson James** and G S Vinod Kumar. Pilocarpine loaded PLGA nanoparticles as potential candidate for controlled drug delivery with enhanced ocular pharmacological response; *Journal of Applied Polymer Science*, 2012, **124(3): 2030-2036**.
21. Sivakumar KC, Dhanesh SB, Sekar Shobana, **Jackson James** and Sathish Mundayoor. A Systems Biology Approach to model Neuronal Stem Cell regulation by Notch, Sonic Hedgehog, Wnt, EGF signaling pathways; *OMICS: A Journal of Integrative Biology*, 2011, **15(10): 729-737**.
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27. Rajeevkumar, R., Suma Priya, S., Mayadevi, M., Mathew Steephan, Santhoshkumar, T. R., John Cheriyan, Sanalkumar, R., Pradeep, K. K., **Jackson James**, and Omkumar R. V.: Phosphorylation status of the NR2B subunit of NMDA receptor regulates its interaction with Calcium/calmodulin dependent protein kinase II; [*J. Neurochem.*, 110 \(2009\) 92-105.](#)

28. B Jagatha, MS Divya, R Sanalkumar, CL Indulekha, S Vidyanand, TS Divya, AV Das & **Jackson James**: *In vitro* differentiation of retinal ganglion-like cells from embryonic stem cell derived neural progenitors; [*Biochem. Biophys. Res. Commun.*, 380 \(2009\) 230-235.](#)
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