

List of Publications

1. Deepak Pradhan, Vishakha Tambe, Nidhi Raval, Piyush Gondalia, Pallab Bhattacharya, Kiran Kalia, Rakesh K. Tekade 2019 Dendrimer Grafted Albumin Nanoparticles for the Treatment of Post Cerebral Stroke Damages: A Proof of Concept Study *Colloids and Surfaces B: Biointerfaces*. 184:110488 (Impact factor-4.18)
2. Mazumder, M.K., Paul, R., Bhattacharya, P. and Borah, A., 2019. Neurological sequel of chronic kidney disease: From diminished Acetylcholinesterase activity to mitochondrial dysfunctions, oxidative stress and inflammation in mice brain. *Scientific reports*, 9(1), p.3097. (Impact factor-4.5)
3. Saraf, J., Bhattacharya, P., Kalia, K., Borah, A., Sarmah, D., Kaur, H., Dave, K.R. and Yavagal, D.R., 2018. A friend or foe: calcineurin across the gamut of neurological disorders. *ACS Central Science*, 4(7), pp.805-819. (Impact factor-12.8)
4. Sarmah, D., Kaur, H., Saraf, J., Vats, K., Pravalika, K., Wanve, M., Kalia, K., Borah, A., Kumar, A., Wang, X. and Yavagal, D.R., Bhattacharya, P. 2019. Mitochondrial dysfunction in stroke: implications of stem cell therapy. *Translational stroke research*, 10(2), pp.121-136. (Impact factor-5.8)
5. Saraf, J., Sarmah, D., Vats, K., Kaur, H., Pravalika, K., Wanve, M., Kalia, K., Borah, A., Dave, K.R., Yavagal, D.R. and Bhattacharya, P., 2019. Intra-arterial stem cell therapy modulates neuronal calcineurin and confers neuroprotection after ischemic stroke. *International Journal of Neuroscience*, 129(10):1039-1044, pp.1-10. (Impact factor-2.1)
6. Sarmah, D., Agrawal, V., Rane, P., Bhute, S., Watanabe, M., Kalia, K., Ghosh, Z., Dave, K.R., Yavagal, D.R. and Bhattacharya, P., 2018. Mesenchymal Stem Cell therapy in Ischemic stroke: a meta-analysis of preclinical studies. *Clinical Pharmacology & Therapeutics*, 103(6), pp.990-998. (Impact factor-7.2)
7. Raval, A., Schatz, M., Bhattacharya, P., d'Adesky, N., Rundek, T., Dietrich, W. and Bramlett, H., 2018. Whole body vibration therapy after ischemia reduces brain damage in reproductively senescent female rats. *International journal of molecular sciences*, 19(9), p.2749. (Impact factor-4.1)
8. Kotian, V., Sarmah, D., Kaur, H., Kesharwani, R., Verma, G., Mounica, L., Veeresh, P., Kalia, K., Borah, A., Wang, X. and Dave, K.R., 2019. Evolving Evidence of Calreticulin as a Pharmacological Target in Neurological Disorders. *ACS chemical neuroscience*, 10(6), pp.2629-2646. (Impact factor-3.8)
9. Kesharwani, R., Sarmah, D., Kaur, H., Mounica, L., Verma, G., Pabbala, V., Kotian, V., Kalia, K., Borah, A., Dave, K.R. and Yavagal, D.R., 2019. Interplay between Mitophagy and Inflammasomes in Neurological Disorders. *ACS chemical neuroscience*, 10(5), pp.2195-2208. (Impact factor-3.8)
10. Luo, C., Yang, Q., Liu, Y., Zhou, S., Jiang, J., Reiter, R.J., Bhattacharya, P., Cui, Y., Yang, H., Ma, H. and Yao, J., 2018. The multiple protective roles and molecular mechanisms of melatonin and its precursor N-acetylserotonin, in targeting brain injury and liver damage and in maintaining bone health. *Free Radical Biology and Medicine* 130:215-233. (Impact factor-5.6)
11. Pravalika, K., Sarmah, D., Kaur, H., Vats, K., Saraf, J., Wanve, M., Kalia, K., Borah, A., Yavagal, D.R., Dave, K.R. and Bhattacharya, P., 2019. Trigonelline therapy confers neuroprotection by reduced glutathione mediated myeloperoxidase expression in animal model of ischemic stroke. *Life sciences*, 216, pp.49-58. (Impact factor-3.4)

12. Sarmah, D., Kaur, H., Saraf, J., Pravalika, K., Goswami, A., Kalia, K., Borah, A., Wang, X., Dave, K.R., Yavagal, D.R. and Bhattacharya, P., 2018. Getting closer to an effective intervention of ischemic stroke: the big promise of stem cell. *Translational stroke research*, 9(4), pp.356-374.(Impact factor-5.8)
13. Wanve, M., Kaur, H., Sarmah, D., Saraf, J., Pravalika, K., Vats, K., Kalia, K., Borah, A., Yavagal, D.R., Dave, K.R. and Bhattacharya, P., 2019. Therapeutic spectrum of interferon- β in ischemic stroke. *Journal of neuroscience research*, 97(2), pp.116-127.(Impact factor-4.1)
14. Paul, R., Dutta, A., Phukan, B.C., Mazumder, M.K., Justin-Thenmozhi, A., Manivasagam, T., Bhattacharya, P. and Borah, A., 2018. Accumulation of Cholesterol and homocysteine in the nigrostriatal pathway of Brain contributes to the dopaminergic neurodegeneration in mice. *Neuroscience*, 388, pp.347-356.(Impact factor-3.2)
15. Deb, S., Dutta, A., Phukan, B.C., Manivasagam, T., Justin-Thenmozhi, A., Bhattacharya, P., Paul, R. and Borah, A., 2019. Neuroprotective attributes of L-theanine, a bioactive amino acid of tea, and its potential role in Parkinson's disease therapeutics. *Neurochemistry international*, 129:104478.(Impact factor-3.9)
16. Deb, S., Phukan, B.C., Mazumder, M.K., Dutta, A., Paul, R., Bhattacharya, P., Sandhir, R. and Borah, A., 2019. Garcinol, a multifaceted sword for the treatment of Parkinson's disease. *Neurochemistry international*.128:50-57(Impact factor-3.9)
17. Rane, P., Sarmah, D., Bhute, S., Kaur, H., Goswami, A., Kalia, K., Borah, A., Dave, K.R., Sharma, N. and Bhattacharya, P., 2018. Novel targets for Parkinson's Disease: Addressing different therapeutic paradigms and conundrums. *ACS chemical neuroscience*, 10(1), pp.44-57.(Impact factor-3.8)
18. Smith, L., Chakraborty, D., Bhattacharya, P., Sarmah, D., Koch, S. and Dave, K.R., 2018. Exposure to hypoglycemia and risk of stroke. *Annals of the New York Academy of Sciences*, 1431(1), pp.25-34.(Impact factor-4.2)
19. Vats, K., Sarmah, D., Kaur, H., Wanve, M., Kalia, K., Borah, A., Dave, K.R., Yavagal, D.R. and Bhattacharya, P., 2018. Inflammasomes in stroke: a triggering role for acid-sensing ion channels. *Annals of the New York Academy of Sciences*, 1431(1), pp.14-24.(Impact factor-4.2)
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21. Pravalika, K., Sarmah, D., Kaur, H., Wanve, M., Saraf, J., Kalia, K., Borah, A., Yavagal, D.R., Dave, K.R. and Bhattacharya, P., 2018. Myeloperoxidase and Neurological disorder: A crosstalk. *ACS chemical neuroscience*, 9(3), pp.421-430.(Impact factor-3.8)
22. Sarmah, D., Saraf, J., Kaur, H., Pravalika, K., Tekade, R., Borah, A., Kalia, K., Dave, K. and Bhattacharya, P., 2017. Stroke management: An emerging role of nanotechnology. *Micromachines*, 8(9), p.262.(Impact factor-2.4)
23. Saraf, J., Kalia, K., Bhattacharya, P. and Tekade, R.K., 2018. Growing synergy of nanodiamonds in neurodegenerative interventions. *Drug discovery today*24(2):584-594.(Impact factor-6.8)
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26. d'Adesky, N., de Rivero Vaccari, J., Bhattacharya, P., Schatz, M., Perez-Pinzon, M., Bramlett, H. and Raval, A., 2018. Nicotine alters estrogen receptor-Beta-regulated Inflammasome activity and exacerbates ischemic brain damage in female rats. *International journal of molecular sciences*, 19(5), p.1330.(Impact factor-4.1)
27. Paul, R., Phukan, B.C., Thenmozhi, A.J., Manivasagam, T., Bhattacharya, P. and Borah, A., 2018. Melatonin protects against behavioral deficits, dopamine loss and oxidative stress in homocysteine model of Parkinson's disease. *Life sciences*, 192, pp.238-245.(Impact factor-3.2)
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30. Paul, R., Choudhury, A., Boruah, D.C., Devi, R., Bhattacharya, P., Choudhury, M.D. and Borah, A., 2017. Hypercholesterolemia causes psychomotor abnormalities in mice and alterations in cortico-striatal biogenic amine neurotransmitters: Relevance to Parkinson's disease. *Neurochemistry international*, 108, pp.15-26.(Impact factor-3.9)
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32. Pandey, A.K., Shukla, S.C., Bhattacharya, P. and Patnaik, R., 2016. A possible therapeutic potential of quercetin through inhibition of μ -calpain in hypoxia induced neuronal injury: a molecular dynamics simulation study. *Neural regeneration research*, 11(8), p.1247.(Impact factor-2.4)
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possible mechanism of GABA agonism. *Journal of physiology and biochemistry*, 70(4), pp.901-913.(Impact factor-2.5)

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45. Bhattacharya, P., Pandey, A.K., Paul, S., Patnaik, R. and Yavagal, D.R., 2013. Aquaporin-4 inhibition mediates piroxicam-induced neuroprotection against focal cerebral ischemia/reperfusion injury in rodents. *PLoS One*, 8(9), p.e73481.(Impact factor-2.7)
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Book/Book chapters

Book

1. Paul, S., Bhattacharya, P. and Bit, A. Early Detection of Neurological Disorders Using Machine Learning Systems. IGI Global. May 2019.(Editor of the Book)

Book Chapters

2. Fuchs, P., Sarmah, D., Kaur, H., Bhattacharya, P. and Dave, K.D. Diabetic stroke and oxidative stress. Elsevier. March 2019.
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Conferences/Peer reviewed abstracts

1. Pallab Bhattacharya, Deepaneeta Sarmah, Harpreet Kaur, Kanchan Vats, Jackson Saraf, Kiran Kalia, and Dileep Yavagal. Intra-arterial mesenchymal stem cell therapy modulates inflammasome to confer neuroprotection in animal model of ischemic stroke..ISC-2019 (American Heart Association),Hawaii, USA .Published in Neurology, 92, no. Suppl_15 (2019) P2. 3-026: P2-3
2. Deepaneeta Sarmah, Harpreet Kaur, Kanchan Vats, Kiran Kalia, Dileep R. Yavagal, and Pallab Bhattacharya. Inflammasome Mediated Reduction of Myeloperoxidase in Ischemic Stroke by Intra-arterial Mesenchymal Stem Cell Therapy..(American Heart Association),Boston,USA Published in Arteriosclerosis, Thrombosis, and Vascular Biology 39, no. Suppl_1 (2019): A429-A429
3. Deepaneeta Sarmah, Kanchan Vats, Jackson Saraf, Harpreet Kaur, Kiran Kalia, Dileep Yavagal, and Pallab Bhattacharya. Abstract TP140: Intra-Arterial Mesenchymal Stem Cell Therapy Modulates Expression of NLRP1 Inflammasome in Animal Model of Ischemic Stroke..ISC-2018 (American Heart Association),Los Angeles, USA. Published in Stroke 50, no. Suppl_1 (2019): ATP140-ATP140
4. Pallab Bhattacharya, Mitsuyoshi Watanabe, Deepaneeta Sarmah, Harpreet Kaur, Sudip Paul, Kiran Kalia, Ami P. Raval and Dileep Yavagal. Intra-arterial delivery of mesenchymal stem cells activates brain derived growth factor (BDNF) signaling and improves functional recovery after stroke in female rats. International.World Stroke Congress,Montreal ,Canada,2019. Published in Journal of Stroke, Volume 12, Supplement 2, 2018, p. 70
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10. Bhattacharya, P., Watanabe, M., Khan, A., Hare, J.M., Perez-Pinzon, M., Kalia, K., Raval, A.P., Yavagal, D.R. and Guada, L., 2017. Intra-arterial mesenchymal stem cell treatment reduces ischemic brain injury in reproductively senescent female rats. *World Stroke Congress, Hyderabad, 2017*. Published in *Stroke*, 46(suppl_1), pp.A168-A168. ISC-2018
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12. Dileep R. Yavagal, Pallab Bhattacharya, Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon and Ami P. Raval. Intra-arterial stem cell treatment reduces injury in a reproductively senescent rat model of stroke. *BRAIN-2015, Canada*. Published in *J. Cereb. Blood Flow Metab. (I.F 4.92)*
13. Paul S, Bhattacharya P, Pandey A. K., Sharma N., Tiwari J. P., Patnaik R. EEG: To Investigate Recovery of rat brain function following ischemic stroke, *ISN-ESN 2011, 23rd Biennial Meeting at Athens, Greece*. Published in *Journal of Neurochemistry (I.F 3.8)*
14. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik. Attenuation of Glutamate mediated neuronal insult by Piroxicam in animal model of Focal Cerebral ischemia: Possible involvement of GABA agonism. *XXIth World Congress of Neurology, Vienna, Austria, 2013*. Published in *Journal of Neurology (I.F 3.57)*
15. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik. Aquaporin-4 as a therapeutic target for neuroprotection by piroxicam in rat model of focal cerebral ischaemia. *European Neurological Society Conference, Prague, Czech Republic*. Published in *Journal of Neurology (I.F 3.57)*
16. Paul S, Bhattacharya P, Pandey A, Sharma N, Tiwari J and Patnaik R. FFT: proves the degree of neuronal insult after focal cerebral ischemia in animal model. *European Neurological Society Conference, Prague, Czech Republic*. 259, S142-S143. Published in *Journal of Neurology (I.F 3.57)*
17. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik: A possible neuroprotective role of Piroxicam in attenuating Glutamate and 5-HT mediated neuronal

insult in animal model of Focal Cerebral ischemia. 11th International Conference on Neuroprotective Agents, Wendake, Quebec City, Quebec, Canada, 2012. Published in CNS NeuroDisord Drug Targets (I.F 2.5)

18. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik Piroxicam modulates lipid peroxidation, potentiates antioxidant redox system, ameliorates behavioral outcome and electrical activity of brain in focal cerebral Ischemia. XXth World Congress of Neurology, Morocco. Published in Journal of Neurology (I.F 3.57)
19. P. Bhattacharya, R. Patnaik, D Moresanu, Aruna Sharma, H S Sharma Heat Stress modulates Aquaporin-4 expression, induces edema formation and brain pathology in rats. Neuroprotective effects of cerebrolysin. XVth International Symposium of Brain Edema and Cellular Injury 2011, Tokyo, Japan. Published in Acta Neurochirurgica (I.F 1.8)
20. Paul S, Bhattacharya P, Pandey A, Sharma N, Tiwari J and Patnaik R. Application of mathematical modeling as a tool to analyze the EEG signals in rat model of focal cerebral ischemia. Conference Abstract in Cape Town School on Advanced Theoretical and Computational Neuroscience. Published in Front. Comput. Neurosci. (I.F 1.8)
21. Akash Deep Rawat, Dilip Sharma, Valencia Fernandes, Kuhu Sharma, Shivangi Patel, Pallab Bhattacharya, Kiran Kalia, Vinod Tiwari*. Efficacy of pentacyclic triterpenoid in animal model of cognitive dysfunction (8th Ramanbhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017).
22. Shivangi Patel, Dilip Sharma, Akash Deep Rawat, Kuhu Sharma, Valencia Fernandes, Pallab Bhattacharya, Kiran Kalia, Vinod Tiwari*. Neuroprotective potential of pentacyclic triterpenoids in animal model of schizophrenia. (8th Ramanbhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017).
23. Kuhu Sharma, Dilip Sharma, Valencia fernandes, Akash Deep Rawat, Shivangi Patel, Pallab Bhattacharya, Kiran Kalia, Vinod Tiwari. Role of NMDA receptors in chronic constriction injury model of neuropathic pain: An updated meta-analysis. (8th Raman bhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017)
24. Valencia Fernandes, Dilip Sharma, Kuhu Sharma, Akash deep Rawat, Shivangi Patel, Pallab Bhattacharya, Kiran Kalia, Vinod Tiwari*. Amelioration of Neuropathic Pain using Milk Thistle Seed Extracts. (8th Ramanbhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017).
25. Tikendra Kumar, Shashikala Bhute, Pallavi Rane, Deepaneeta Sarmah, Vinod Tiwari, Kiran Kalia and Pallab Bhattacharya*. Neuroprotective Effects of Alkaloids in Preclinical Model of Stroke: A Meta-analysis. (8th Ramanbhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017).
26. Deepaneeta Sarmah, Dileep Yavagal, Vinod Tiwari, Kiran Kalia, Pallab Bhattacharya Intra-arterial Mesenchymal Stem Cell Treatment Reduces Ischemic Brain Injury in Rats. World Stroke Congress held at Hyderabad, October 26-29th, 2016.
27. Shashikala R. Bhute, Rinkle Tanna, Deepaneeta Sarmah, Pallavi Rane, Tikendra Kumar, Vinod Tiwari, Kiran Kalia, Amit Shard and Pallab Bhattacharya*. An In Silico Study to Evaluate the Role of Small Heterocyclic Moiety in the Improvement of Cognitive Function. (8th Raman bhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017)
28. Pallavi Rane, Deepaneeta Sarmah, Shashikala R. Bhute, Tikendra Sonwan, Vinod Tiwari, Kiran Kalia and Pallab Bhattacharya*. Preclinical Assessment of Polyphenols in the treatment of

- Parkinson's Disease: A Meta-analysis. (8th Ramanbhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017).
29. Deepaneeta Sarmah, Dileep Yavagal, Kiran Kalia and Pallab Bhattacharya. Intra-arterial Mesenchymal Stem Cell Treatment Reduces Ischemic Brain Injury in Rats. (IBRO/APRC Associate School 2017, Shillong, Meghalaya, India June 5-10, 2017).
 30. Deepaneeta Sarmah, Pallavi Rane, Shashikala R. Bhute, Tikendra Kumar, Vinod Tiwari, Kiran Kalia and Pallab Bhattacharya*. Use of Mesenchymal Stem Cells (MSCs) in Preclinical Settings for Ischemic Stroke Therapy: A Meta-analysis. (8th Ramanbhai Foundation International Symposium on Current Trends in Healthcare, Ahmedabad, India Feb 2-4, 2017).
 31. Sudip Paul, N. Sharma, P. Bhattacharya, A. K. Pandey, S. Sharma, R. Patnaik: "Mathematical modeling of focal cerebral ischemia using EEG data", Published National Conference on Mathematical Modeling and Computer Simulation, Department of Applied Mathematics, Banaras Hindu University, India, March 25-27 2011.
 32. P. Bhattacharya, S. Paul, A. K. Pandey, R. Patnaik: "Piroxicam alters electrical activity of brain, attenuates oxidative stress and reduces excitotoxic neuronal damage in vivo", 2011 NSF- GEM4 Summer School, Georgia Institute of Technology, Atlanta, USA, June 21-30, 2011.(Poster Accepted)
 33. Paul S., Bhattacharya P., Pandey A. K., Sharma N., Tiwari J. P., Patnaik R.: "EEG: To Investigate Recovery of rat brain function following ischemic stroke", ISN-ESN 2011, 23rd Biennial Meeting at Athens, Greece, Aug 28-Sept 1, 2011 (Poster).Indexed in Journal of Neurochemistry.
 34. S. Paul, R. Patnaik, P. Bhattacharya, A. Sharma, P. K. Menon, H. S. Sharma "Engineered Nanoparticles from metals exacerbate aquaporin-4 expression, astrocytic activation, Blood-brain barrier disruption, edema formation in the brain following hyperthermia", Neuroscience 2011, Washington, DC, November 12-16, 2011 (Oral presentation).
 35. P.Bhattacharya, R.Patnaik, D Moresanu, Aruna Sharma, H S Sharma Heat Stress modulates Aquaporin-4 expression, induces edema formation and brain pathology in rats. Neuroprotective effects of cerebrolysin,(Oral Presentation/Paper accepted)XVth International Symposium of Brain Edema and Cellular Injury 2011, Tokyo,Japan.
 36. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik: Piroxicam exerts a neuroprotective action in a rat model of focal cerebral ischemia (Oral Presentation/Paper Accepted International Conference on Tissue Engineering and Regenerative Medicine, National Institute of Technology, Rourkela, India, September 29- October 2, 2011.
 37. Anand Kr. Pandey, Pallab Bhattacharya, H.S Sharma Influence of engineered nanoparticles from metals (Ag, Cu or Al) on Age-related changes in Lectin binding in the rat brain following heat stress Neuroscience-2012,SfN Oral presentation
 38. Pallab Bhattacharya, Anand Kr. Pandey, H.S Sharma Repeated cerebrolysin administration attenuated Hyperthermia induced astrocytic activation, myelin damage and brain edema in normal and in Cu and Ag nanoparticles treated rats Neuroscience- 2012,SfN Oral presentation
 39. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik: A possible neuroprotective role of Piroxicam in attenuating Glutamate and 5-HTmediated neuronal insult in animal model of Focal Cerebral ischemia. 11th International Conference on Neuroprotective Agents, Wendake, Quebec City, Quebec, Canada, Sept 30-Oct 3, 2012(Oral Presentation)

40. Pallab Bhattacharya, Alyssa A. Toledo, Sudheesh Pilakka Kanthikeel, Madhavan Nair, Joshua. M. Hare, Ami P. Raval, and Dileep R. Yavagal. Brain-derived growth factor (BDNF) signaling: Possible implications for BDNF bound magnetic nano-carriers for the treatment of stroke. CAEN-2015, University of Miami, USA.
41. Pallab Bhattacharya, Ami P. Raval, C. Dong, W. Zhao, JM Hare, Dileep Yavagal. Intra-arterial delivery of mesenchymal stem cell alters neurotrophins and protects brain from stroke injury. Poster presentation Miami Winter Symposium-2014, Miami, FL, USA. Jan 26-29, 2014.
42. S. Paul, P. Bhattacharya, T. K. Sinha, R. Patnaik. Characterization of the brain attractors in focal cerebral ischemic rat model using EEG time series data analysis. SfN Neuroscience-2014, Washington DC, USA.
43. Pallab Bhattacharya, Ami P. Raval, C. Dong, W. Zhao, JM Hare, Dileep Yavagal. Intra-arterial delivery of mesenchymal stem cell protects brain in a rat model of stroke. Poster presentation. SfN Neuroscience-2013, San Diego, CA, USA. Nov 9-13, 2013.
44. Corinne Bunn, Pallab Bhattacharya, Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon, Dileep R. Yavagal and Ami P. Raval. Intra-arterial stem cell treatment reduces injury in a reproductively senescent rat model of stroke. CAEN-2015, University of Miami, USA
45. D. R. Yavagal, P. Bhattacharya, R. Lopez, A. Khan, M. Perez-Pinzon, J. M. Hare, A. P. Raval. Intra-arterial delivery of mesenchymal stem cell protects brain from stroke injury via brain-derived growth factor (BDNF) signaling. Poster presentation. SfN Neuroscience-2014, Washington DC, USA.
46. Dileep R. Yavagal, Pallab Bhattacharya, Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon and Ami P. Raval. Intra-arterial stem cell treatment reduces the ischemic brain injury in the reproductively senescent female rats. International Stroke Conference (American Heart Association)-2015 Nashville, TN, USA.
47. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik. Possible role of Piroxicam in GABA agonism to alleviate Glutamate mediated neuronal insult in rodent model of Ischemic stroke. Poster presentation. SfN Neuroscience-2014, Washington DC, USA.
48. Corinne Bunn, Pallab Bhattacharya, Alyssa A. Toledo, Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon, Dileep R. Yavagal and Ami P. Raval. Intra-arterial Stem Cell Treatment Reduces Ischemic Brain Injury In Reproductively Senescent Female Rats Symposium of the Society for Personalized Nano-Medicine.-2015 Florida International University, Miami, USA.
49. Dileep R. Yavagal, Pallab Bhattacharya, Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon and Ami P. Raval. Intra-arterial stem cell treatment reduces injury in a reproductively senescent rat model of stroke. BRAIN-2015, Vancouver, Canada.
50. Pallab Bhattacharya, Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon and Ami P. Raval, Dileep R. Yavagal. Intra-arterial delivery of mesenchymal stem cell protects brain from stroke injury via brain-derived growth factor (BDNF) signaling. 10th Annual Conference of Indian Stroke Association - INSC 2015, Chandigarh, India
51. S. Paul, T. K. Sinha, P. Bhattacharya, Anand Pandey, R. Patnaik. Wavelet based analysis as a tool to evaluate the degree of neuronal insult in animal model of ischemic stroke. SfN Neuroscience-2015, Chicago, USA (Poster presentation)

52. Andrea Yeguez, Jonathan Lucas, Alina Diaz, Pallab Bhattacharya, Nathan d'Adesky, Juan Pablo de Rivero Vaccari and Ami P. Raval. Sexual dimorphisms in hippocampal inflammasome activation. Miami Winter Symposium 2016, Miami, USA (Poster Presentation)
53. Alina Diaz, Pallab Bhattacharya, Nathan d'Adesky, Andrea Yeguez, Juan Pablo de Rivero Vaccari and Ami P. Raval. Sexual dimorphism exists in inflammasome activation at the middle age in the rat brain. Annual Biomedical Research Conference. Seattle, Washington (USA). Nov 11-14, 2015. (Poster Presentation)
54. Pallab Bhattacharya, Mitsuyoshi Watanabe, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon and Ami P. Raval, Dileep R. Yavagal. Intra arterial stem cell treatment reduces ischemic brain injury in rats. Miami Winter Symposium 2016, Miami, USA (Poster Presentation)
55. Pallab Bhattacharya, Alyssa A. Toledo, Sudheesh Pilakka Kanthikeel, Madhavan Nair, Joshua. M. Hare, Ami P. Raval, and Dileep R. Yavagal. Brain-derived growth factor (BDNF) signaling: Possible implications for BDNF bound magnetic nano-carriers for the treatment of stroke. Symposium of the Society for Personalized Nano-Medicine.-2015 Florida International University, Miami, USA. (Oral Presentation)
56. Deepaneeta Sarmah, Dileep Yavagal, Kiran Kalia, Pallab Bhattacharya. Intra arterial mesenchymal stem cell treatment reduces ischemic brain injury in reproductively senescent female rats. World Congress of Neurology-2017, Kyoto, Japan.
57. Bhattacharya, B.P. Mishra, D.C. Baluni, C.M. Thakur: Zebrafish-A modern tool to explore Human Diseases (Published, UGC National Conference B.R. Ambedkar B. University, Muz).
58. D.C. Baluni, P. Bhattacharya. Exploring fish products for medicinal purpose. (Published, UGC National Conference, M.K. College, Bettiah) B.R. Ambedkar B. University, Muz).
59. Arpit Sharma, P. Bhattacharya, S. Paul, R. Patnaik: Rehabilitation of Focal Cerebral Ischemia following exposure to low dose of Direct Current Electromagneto Therapy (Published in National Conference on Biomedical Engg. Research and Application, JIS, Kolkata).
60. Rupsha Mukhopadhyay, P. Bhattacharya, S. Paul, R. Patnaik: Design of Electro Magneto therapy unit for rats & evaluating its performance by wound healing (Published in National Conference on Biomedical Engg. Research and Application, JIS, Kolkata)
61. Archana Gupta, P. Bhattacharya, S. Paul, R. Patnaik: Effect of exposure to low dose of Direct Current Electromagnetic Radiation in recovery from Depression in Rat Model (Published in National Conference on Biomedical Engg. Research and Application, JIS, Kolkata).
62. Pallab Bhattacharya Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik. Piroxicam alters brain electrical activity, attenuates oxidative stress and decreases ischemic neuronal and excitotoxic damage in vivo. Poster Accepted GEM4 Winter School, Georgia Tech, Atlanta, USA.
63. Pallab Bhattacharya Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik. Piroxicam modulates lipid peroxidation, potentiates antioxidant redox system, ameliorates behavioral outcome and electrical activity of brain in focal cerebral Ischemia. Paper accepted for Oral Presentation in XXth World Congress of Neurology, Morocco
64. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik. Attenuation of oxidative stress and MMPs in ischemic stroke: the evaluation of biomarker for antioxidant therapy NCBM, JNIAS, Hyderabad

65. Pallab Bhattacharya, Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik Cyclooxygenase-2 as a biomarker in cerebral ischemia: A possible neuroprotective role of Piroxicam NCBM,JNIAS,Hyderabad
66. PAUL S, Bhattacharya P, Pandey A, Sharma N, Tiwari J and Patnaik R. Application of mathematical modeling as a tool to analyze the EEG signals in rat model of focal cerebral ischemia. Front. Comput. Neurosci. Conference Abstract in Cape Town School on Advanced Theoretical and Computational Neuroscience. Best Poster Award.
67. Paul S, Bhattacharya P, Pandey A, Sharma N, Tiwari J and Patnaik R. FFT: proves the degree of neuronal insult after focal cerebral ischemia in animal model. European Neurological Society Conference, Prague, Czech Republic. Paper accepted for Poster Presentation. Indexed in Journal of Neurology 259, S142-S143
68. Pallab Bhattacharya Anand Kr. Pandey, Sudip Paul, Ranjana Patnaik. Aquaporin-4 as a therapeutic target for neuroprotection by piroxicam in rat model of focal cerebral ischaemia.European Neurological Society Conference, Prague, Czech Republic. Paper accepted for Oral Presentation. Indexed in Journal of Neurology 259, S50-S50
69. Nathan d'Adesky, Juan Pablo de Rivero Vaccari, Pallab Bhattacharya, Helen Bramlett, Miguel A. Perez-Pinzon, and Ami P. Raval. Estrogen receptor beta regulates inflammasome activation in the hippocampus of female rats. University of Miami, Postdoctoral Conference,Miami,Florida,USA (Poster Presentation)
70. Dileep R. Yavagal, Pallab Bhattacharya, Mitsuyoshi Watanabe,Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon and Ami P. Raval. Intra-arterial stem cell treatment reduces the ischemic brain injury in the reproductively senescent female rats. American Heart Association (AHA) Conference, Orlando, Florida, USA
71. Marc Schatz, Nathan d'Adesky, Pallab Bhattacharya, Ami P. Raval, W.Dalton Dietrich and Helen M. Bramlett. Whole body vibration reduces ischemic brain damage in middle aged female rats. University of Miami, Neuroscience Day Conference, Miami, Florida, USA (Poster Presentation)
72. Dileep R. Yavagal, Pallab Bhattacharya, Mitsuyoshi Watanabe,Weizhao Zhao, Aisha Khan, Joshua. M. Hare, Miguel Perez-Pinzon and Ami P. Raval. Intra-arterial stem cell treatment reduces the ischemic brain injury in the reproductively senescent female rats. University of Miami, Neuroscience Day Conference, Miami, Florida, USA (Poster Presentation)
73. Glutamate mediated neuronal insult by Piroxicam in animal model of Focal Cerebral ischemia: Possible involvement of GABA agonism Poster Presentation. XXIth World Congress of Neurology ,Vienna ,Austria Sep 22-25,2013
74. B.K.Rai, N.Jha, Dhiraj Kumar, P.Bhattacharya. Effect of iced-shelf-life on lipid contents of *Cirrhinus mrigala* and *Catla catla*. (Published), UGC National Conference B.R.Ambedkar B.University,Muz).

Invited Talks:

1. Invited talk on 'Stem cell therapy to aid ischemic stroke recovery: Implications of Inflammasome signalling' at the International Brain Research Organization (IBRO-APRC) School 2019 on 'Advanced techniques to explore the functions of normal and diseased brain' held at Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, Kerala.

2. Invited talk on 'Stem cell therapy to aid ischemic stroke recovery: Implications of Inflammasome signalling' at the International Brain Research Organization (IBRO-APRC) School 2019 on 'Associate School on Advances in Molecular Neurobiology Research' held at Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh.
3. Invited Talk on Intra-arterial stem cell therapy to aid ischemic stroke recovery: Implications of brain derived growth factor (BDNF) signaling. Invited Talk at Indian Academy of Neuroscience 2016 meeting at National Brain Research Centre, Manesar.
4. APJ Abdul Kalam Invited Talk on Stem cell therapy in animal model of Ischemic stroke: A move from bench to bedside. at Indian Academy of Biomedical Science Conference, 2017
5. Invited Talk on 'Stem cell therapy to aid ischemic stroke recovery: Move from bench to bedside' at 2nd IBRO Bangladesh Associate School of Neuroscience: Fundamental of Neuroscience, Neural Disorders, and Neural Engineering. Dhaka, Bangladesh
6. Invited Talk on 'Stem cell therapy to aid ischemic stroke recovery: BBB and mitochondrial protection' at IBRO Associate School on the theme "Blood-Brain-Barrier: From Basic Physiology to Neurological Disorders" Panjab University, Chandigarh.
7. Invited Talk on 'Stem cell therapy to aid ischemic stroke recovery: Implication of Inflammasome signaling at IAN Meeting, AIIMS, New Delhi
8. Invited Talk on 'Stem cell therapy to aid ischemic stroke recovery: Role of mitochondrial transfer at Indo-US Symposium, Andaman Nicobar, India