

# *LIST OF PUBLICATIONS*

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### **PUBLICATIONS (From Thesis)**

1. *Differential regulation of MeCP2 phosphorylation by laminin in oligodendrocytes*, **Parikh ZS**, Tripathi A, Pillai PP. J Mol Neurosci. 2017 Aug; 62(3-4):309-317. doi: 10.1007/s12031-017-0939-4. Epub 2017 Jun 14. PMID: 28616777
2. *pERK1/2 Peripheral Recruitment and Filopodia Protrusion Augment Oligodendrocyte Progenitor Cell Migration: Combined Effects of PDGF-A and Fibronectin*. Tripathi A, **Parikh ZS**, Vora P, Frost EE, Pillai PP. Cell Mol Neurobiol. 2017 Mar;37(2):183-194. doi: 10.1007/s10571-016-0359-y. Epub 2016 Mar 18. PMID: 26993510
3. Parikh Z. S., Tripathi A, Pillai P. P Stimuli dependent MeCP2 phosphorylation and chromatin association in cortical astrocytes (**manuscript under preparation**).

### **PUBLICATIONS (From collaborative work)**

4. *Synthesis and Biological Evaluation of Novel Multi-target-Directed Benzazepines Against Excitotoxicity*. Machhi J, Prajapati N, Tripathi A, **Parikh ZS**, Kanhed AM, Patel K, Pillai PP, Giridhar R, Yadav MR. Mol Neurobiol. 2016 Oct 15. PMID: 27744571
5. *Benzylpiperidine-Linked Diarylthiazoles as Potential Anti-Alzheimer's Agents: Synthesis and Biological Evaluation*. Shidore M, Machhi J, Shingala K, Murumkar P, Sharma MK, Agrawal N, Tripathi A, **Parikh ZS**, Pillai P, Yadav MR. J Med Chem. 2016 Jun 23;59(12):5823-46. doi: 10.1021/acs.jmedchem.6b00426. Epub 2016 Jun 13. PMID: 27253679
6. *Neuroprotective Potential of Novel Multi-Targeted Isoalloxazine Derivatives in Rodent Models of Alzheimer's Disease Through Activation of Canonical Wnt/ $\beta$ -Catenin Signalling Pathway*. Machhi J, Sinha A, Patel P, Kanhed AM, Upadhyay P, Tripathi A, **Parikh ZS**, Chruvattil R, Pillai PP, Gupta S, Patel K, Giridhar R, Yadav MR. Neurotox Res. 2016 May;29(4):495-513. doi: 10.1007/s12640-016-9598-4. Epub 2016 Jan 21. PMID: 26797524

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7. *Discovery of isoalloxazine derivatives as a new class of potential anti-Alzheimer agents and their synthesis.* Kanhed AM, Sinha A, Machhi J, Tripathi A, **Parikh ZS**, Pillai PP, GiridharR, YadavMR. Bioorg Chem.2015 Aug; 61:7-12. doi: 10.1016/j.bioorg.2015.05.005. Epub 2015 May 21. PMID:26042530

## CONFERENCE PROCEEDINGS

(Abstracts published in meetings/conferences)

1. **Zalak S. Parikh**, Ashutosh Tripathi and Prakash P. Pillai “*Extracellular regulation of MeCP2 phosphorylation in glial cells.*” at 35<sup>th</sup> Annual Meeting of The Society for Reproductive Biology and Comparative Endocrinology Department of Animal Biology, University of Hyderabad, Hyderabad -500046, India 9<sup>th</sup> - 11<sup>th</sup> February, 2017. (Role : First author)
2. Prakash Pillai, Kedar Sharma and **Zalak Parikh**. *MeCP2: A novel epigenetic regulator of cortical oligodendrocyte differentiation.* 40<sup>th</sup> Annual Meeting of Japan Neuroscience Society at Makuhari Messe, Tokyo, Japan (July 20-23, 2017). (Invited Talk to P.P. Pillai) (Role: co-author)
3. Prakash Pillai, Kedar Sharma and **Zalak Parikh**. *A novel epigenetic regulator of cortical oligodendrocyte differentiation: Possible implications for neurodevelopmental disorders.* EMBO Workshop on Cortical Development in Health and Disease, at The David Lopatie Conference Centre, Weizmann Institute of Science, Rehovot, Israel (April 26-29, 2015). (Invited Talk to P.P. Pillai) (Role: co-author)
4. Prakash P. Pillai, Ashutosh Tripathi, Juhi Singh, **Zalak Parikh** and Kedar Sharma. *Role of PDGFR $\alpha$  – integrin crosstalk in OPC migration.* 12<sup>th</sup> Meeting of the Asian-Pacific Society for Neurochemistry (APSN), Kaohsiung, Taiwan (August 23<sup>rd</sup> -26<sup>th</sup>, 2014) (Invited Talk to P.P. Pillai) (Role: co-author)

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5. **Zalak S. Parikh**, Ashutosh Tripathi and Prakash P. Pillai “Expression and distribution pattern of MeCP2 in oligodendrocyte lineage progression” on ADULT NEUROGENESIS: From Stem Cells to Therapies at Tata Institute of Fundamental Research, Mumbai, India (Feb 6-8th, 2014) (Role : First author)
  6. Ashutosh Tripathi, **Zalak S. Parikh** and Prakash P. Pillai. *Role of extracellular matrix and growth factors in oligodendrocyte cytoskeletal reorganization* at XI European Meeting on Glial Cells in Health and Disease Berlin July 3 - 6, 2013. (Role :Co- author)
  7. *Cross-talk between cytokines and neurotrophins in cortical oligodendrocytes, astrocytes and myelinating spinal-cord cultures* 11th Biennial meeting of the Asian Pacific Society for Neurochemistry -The 55th Annual meeting of the Japanese Society for neurochemistry (APSN/JSN Sept 30th-Oct 2nd 2012 (Invited Talk to P.P. Pillai) (Role: co-author)

## **Awards & Fellowships**

### **International Exchange Fellowship**

Received International Exchange Fellowship 2016 from Asia-Pacific Regional Committee (APRC) of the International Brain Research Organization (IBRO) of 6000/-USD to work in lab of Dr. Kazunori Nakajima, Keio School of Medicine, Tokyo Japan for four months (**May 2016-Aug 2016**).

### **Senior Research Fellowship (SRF):**

From Indian Council of Medical Research (ICMR), New Delhi. project No: 3/1/2/64/Neuro/2015- NCD-I (**Jan 2017-Feb 2018**)