

Curriculum Vitae
Amanjot Kaur Riar, PhD., M.B.A

Academic Appointments

- 2016 – Current Research Laboratory Manager
Brigham and Women's Hospital- Harvard Medical School
Department of Medicine
Harvard New Research Building
77 Avenue Louis Pasteur, 641
Boston, Massachusetts 02115 USA
Phone: 617-525-7251
Email: ariar@bwh.harvard.edu
- 2015 – 2016 Senior Associate Researcher
Mount Sinai Hospital
Icahn School of Medicine
1 Gustave I Levy Place
New York, NY 10029 USA
- 2014 – 2015 Research Associate
University of Miami
Miller School of Medicine
1475 NW 12th Avenue
Miami, Florida 33136

Education

- 2009 – 2014 Ph.D., Biomedical Sciences (Pharmacology and Neuroscience)
Graduate School of Biomedical Sciences
Texas Tech University Health Sciences Center (TTUHSC)
Lubbock, Texas USA
- 2012 – 2013 M.B.A., General Business
Rawls College of Business
Texas Tech University
Lubbock, Texas USA
- 2003 – 2007 B.S., Pharmaceutical Sciences
College of Pharmacy, Amravati University, Amravati, India

Peer Reviewed Publications (Google scholar citations: 143)

1. **Riar AK**, Burstein SR, Palomo GM, Arreguin A, Manfredi G, Germain D. Sex specific activation of the ER α axis of the mitochondrial UPR (UPR^{mt}) in the G93A-SOD1 mouse model of familial ALS. Hum Mol Genet. 2017 Apr 1;26(7):1318-1327
2. T C Kenny, P Hart, M Ragazzi, M Sersinghe, J Chipuk, M A K Sagar, K W Eliceiri, T LaFramboise, S Grandhi, J Santos, **A K Riar**, L Papa, M D'Aurello, G Manfredi, M G Bonini and D Germain. Selected mitochondrial DNA landscapes activate the SIRT3 axis of the UPR^{mt} to promote metastasis. Oncogene. 2017 April 3; 36, 4393–4404

3. **Riar AK**, Narasimhan M, Rathinam ML, Henderson GI, Mahimainathan L. Ethanol induces cytostasis of cortical basal progenitors. *J Biomed Sci.* 2016 Jan 19; 23(1)
4. **Riar AK**, Kenny TC, Takabatake Y, Papa Luena, Germain D. Mitochondrial dysfunction in breast cancer. *Research and Reports in Biology - Dove Medical Press* (2015)
5. **Riar AK**, Narasimhan M, Rathinam ML, Vedpathak D, Mummidi S, Henderson GI, Mahimainathan L. Ethanol-Induced Transcriptional Activation of Programmed Cell Death 4 (Pcd4) Is Mediated by GSK-3beta Signaling in Rat Cortical Neuroblasts. *PloS one* 2014, 9(5): e98080.
6. Narasimhan M, **Riar AK**, Rathinam ML, Vedpathak D, Henderson G, Mahimainathan L. Hydrogen Peroxide responsive miR153 targets Nrf2/ARE cytoprotection in paraquat induced dopaminergic neurotoxicity. *Toxicol Lett.* 2014 Aug 4;228(3):179-91.
7. Narasimhan M, Rathinam M, **Riar A**, Patel D, Mummidi S, Yang HS, Colburn NH, Henderson GI, Mahimainathan L. Programmed cell death 4(PDCD4): a novel player in ethanol-mediated suppression of protein translation in primary cortical neurons and developing cerebral cortex. *Alcohol Clin Exp Res.*2013 Jan; 37(1): 96-109
8. Rathinam ML, Watts LT, Narasimhan M, **Riar AK**, Mahimainathan L, Henderson GI. Astrocyte mediated protection of fetal cerebral cortical neurons from rotenone and paraquat. *Environ Toxicol Pharmacol.*2012 Mar;33(2):353-60
9. Narasimhan M, Mahimainathan L, Rathinam ML, **Riar AK**, Henderson GI. Overexpression of Nrf2 protects cerebral cortical neurons from ethanol-induced apoptotic death. *Mol.Pharmacol.*2011 Dec; 80 (6): 988-99

Published Research Abstract/ In press in Peer-Reviewed Conference

1. **A.K.Riar**, S.R Burstein, G.Palomo, A Arreguin, G Manfredi, D Germain. Sex specific activation of the ER α axis of the mitochondrial UPR in the G93A-SOD1 mouse of familial ALS. FASEB mitochondrial conference, 2017
2. **A.K.Riar**, M.Narasimhan, M.L.Rathinam, D.Vedpathak, G.I.Henderson, L.Mahimainathan (2013). Ethanol Transcriptionally Activates Programmed Cell Death 4 (PDCD4) in Rat Cortical Brain Neuroblasts. Abstracts–Posters. *Alcoholism: Clinical and Experimental Research*, 37: 11A–253A.
3. **A.Riar**, M.Narasimhan, M.L.Rathinam, D.Vedpathak, D.Patel, G.Henderson, L.Mahimainathan (2012). Role of Programmed Cell Death 4 (PDCD4) in Ethanol-Induced Dysregulation of Neurogenesis. Abstracts—Posters. *Alcoholism: Clinical and Experimental Research*, 36: 11A–303A.
4. **A.Riar**, M.Narasimhan, M.L. Rathinam, G.I. Henderson and L. Mahimainathan (2013). Ethanol Inhibits the Proliferation of Cortical Basal Neuronal Progenitors.
5. **A.Riar**, M.Narasimhan, M.L. Rathinam, G.I. Henderson and L. Mahimainathan (2012). Role of Programmed Cell Death 4 (PDCD4) In Ethanol-Induced Dysregulation of Neurogenesis. Texas Research Society on Alcoholism (TRSA) combined with Texas American Society of Addiction Medicine (TSAM) and Region 8 American Association of Addiction Psychiatry (AAAP), Bryan/College Station, Texas
6. **A.Riar**, M.Narasimhan, M.L. Rathinam, G.I. Henderson and L. Mahimainathan (2011). Programmed Cell Death 4 (PDCD4) As A Potential Mediator of Ethanol Induced Inhibition of Neuroblast Proliferation. Texas Research Society on Alcoholism (TRSA), Lubbock, Texas.
7. ML Rathinam, M Narasimhan, **AK Riar**, GI Henderson, L Mahimainathan (2013). Ethanol induces oxidative modification of DJ-1 CYS 106 influencing intracellular glutathione in neurons. *Alcoholism: Clinical and Experimental Research*, 37: 190A–190A
8. M Narasimhan, ML Rathinam, D Vedpathak, **AK Riar**, GI Henderson, L Mahimainathan (2013). Interaction of MIR153 & MIR27A-NRF2/ARE pathway during neuronal oxidative stress. *Alcoholism: Clinical and Experimental Research*, 37: 126A–126A
9. ML Rathinam, M Narasimhan, A Fowler, **A Riar**, BS Kasturi, L Mahimainathan, GI Henderson (2011). Ethanol dysregulates transulfuration pathway in primary cortical neurons (PCN). *Alcoholism: Clinical and Experimental Research*, 35 (6), 37A-37A

Journal Reviewer

1. PLOS ONE
2. Degenerative Neurological and Neuromuscular Disease
3. Neuroscience and Neuroeconomics
4. Research and Reports in Biology
5. Substance Abuse and Rehabilitation
6. Clinical Medicine Reviews in Oncology
7. Clinical Medicine Reviews in Therapeutics
8. Clinical Medicine Reviews in Vascular Health
9. Clinical Medicine Reviews in Women's Health
10. Genetics & Epigenetics
11. Cancer Growth and Metastasis
12. Biomarkers in Cancer
13. Clinical Medicine Insights: Therapeutics
14. Clinical Medicine Insights: Oncology
15. Clinical Medicine Insights: Reproductive Health
16. Substance Abuse: Research and Treatment
17. Signal Transduction Insights
18. Biochemistry Insights
19. Breast Cancer: Targets and Therapy
20. Analytical Chemistry Insights
21. European Journal of Neuroscience
22. Pathogens, MDPI
23. Biology, MDPI
24. Brain Sciences, MDPI
25. Behavioral Sciences, MDPI
26. Neuroglia, MDPI
27. Toxics, MDPI
28. Journal of Social Work Practice in the Addictions
29. Neuropsychiatric Disease and Treatment
30. World Journal of Neuroscience (WJNS)
31. Journal of Behavioral and Brain Science
32. High-Throughput-Open Access Journal

Editorial Board Member

1. Bioequivalence & Bioavailability International Journal (BEBA)
2. Open Access Journal of Pharmaceutical Research
3. Open Science Journal
4. Journal of Cancer Research and Experimental Oncology
5. Symbiosis Open Access Journals (SOJ) Neurology
6. International Scientific Research Organization Journal
7. American Journal of Genetics
8. Global Journal of Molecular Biology
9. International Journal of Behavioral and Brain Science
10. Webmed Central, Alcoholism
11. Biomedical Research and Therapy
12. American Journal of Surgical Research and Reviews
13. American Journal of Psychiatry and Neuroscience, Guest Editor
14. International Journal of Medical and Health Research, Associate Editor
15. Journal of Spine and Neurological Disorders
16. GSC Advanced Research and Reviews (GSCARR)

Awards & Certifications

- 2009 CH Foundation Scholarship, TTUHSC, Lubbock, Texas
2013 Good Clinical Practice (GCP): Introduction to Clinical Trials and Drug Development, Biopharma Institute
2013 Good Manufacturing Practice (GMP): Documentation and Record Keeping, Biopharma Institute Program
2008 License Registered Pharmacist, Certificate No 95585, India

Membership

Sigma Xi The Scientific Research Honor Society

Professional Affiliations

Research Society on Alcoholism (RSA)
Texas Research Society on Alcoholism (TRSA)
Society for Neuroscience
Society of Toxicology
Pharmacy Council of India