LIST OF PUBLICATIONS

A. PUBLICATIONS FROM PH.D. THESIS WORK

Research Articles

1. **Prajapati P**, Sripada L, Singh K, Bhatelia K, Singh R, Singh R "TNF-α regulates miRNA targeting mitochondrial complex-I and induces cell death in dopaminergic cells**."** ***Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, 2014. 4;1852 (3):451-461.*** IF: **5.158**, Citations: **10**

2. **Prajapati P,** Sripada L, Singh K, Roy M, Bhatelia K, Dalwadi P, Singh R[#], " Systemic analysis of miRNAs in PD stress conditions: hsa-miR-5701 modulates autophagy and cell death." **(Under revision to Molecular Neurobiology)** IF: **5.397**

Presentation in International Conference:

Poster Presentation:

1. **Prajapati P**, Sripada L, Tomar D, Singh R, "TNF treatment in SHSY-5Y effects miRNA expression and induces cell death and mitochondrial impairment". 3rd Annual Conference of the SMRM on "Mitochondria in Health and Disease". National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, India, December 19-20, 2013.
2. **Prajapati P**, Sripada L, Dalwadi P, Singh K, Bhatelia K, Roy M, Singh R, Singh R, "System analysis of miRNAs in PD stress conditions: hsa-miR-5701 modulates autophagy and cell death" The XXXVII All India Cell Biology Conference on Cell organizatin and Dynamics, Thiruvananthapuram, Kerla, India, December 6-8, 2015

B. PUBLICATIONS FROM OTHE ASSOCIATED PROJECTS DURING PH.D. TENURE

Research Articles

1. **Prajapati P,** Dalwadi P, Sripada L, Singh K, Joshi B, Bhatelia K, Roy M, Singh R[#], Singh RR.[#]., "Enforced lysosomal biogenesis rescues Erythromycin and Clindamycin induced mitochondria mediated cell death in human cells." **(Under review in Mitochondrion)** IF: **3.647**
2. **Prajapati P**, Tomar D, Sripada L, Singh K, Bhaterlia K, Roy M, Singh R, TRIM32; TRIM RING E3 ligase, sensitizes the cells to oxidative stress induced cell death by modulating the turnover of XIAP **(manuscript under preparation)**
3. Tomar D**, Prajapati P**, Sripada L, Singh K, Singh R, Singh AK, Singh R "TRIM13 regulates translocation of caspase-8 to autophagosomes, its activation, and cell death during ER stress." ***Molecular Cell Research, Biochimica et biophysica acta, 2013. 1833(12): p. 3134-44.*** IF: **5.128**, Citations:**2**
4. Tomar D, **Prajapati P**, Lavie J, Singh K, Sripada L, Bhatelia K, Roy M, Singh R, Bénard G., Singh R, " TRIM4; a novel mitochondrial interacting RING E3 ligase, sensitizes the cells to H2O2 induced cell death" **Free Radic Biol Med. 2015 Oct 31;89:1036-1048**. IF: **5.784**, Citations:**14**
5. Tomar D**,** Sripada L, **Prajapati P**, Singh R, Singh AK., Singh R. "Nucleo-Cytoplasmic Trafficking of TRIM8, a Novel Oncogene, Is Involved in Positive Regulation of TNF Induced NF-kappaB Pathway." ***PloS one*** **2012; 7(11): e48662.** IF:**3.234**, Citations:**39**
6. Sripada L, Tomar D**, Prajapati P**, Singh R, Singh AK, Singh R. "Systematic Analysis of Small RNAs Associated with Human Mitochondria by Deep Sequencing: Detailed Analysis of Mitochondrial Associated miRNA." ***PloS one*** **2012; 7(9): e44873**. IF:**3.234**, Citations:**13**
7. Bhatelia K, Singh K, **Prajapati P**, Sripada L., Roy M " MITA modulates autophagy flux and regulate cell death in breast cancer cells." **Cell Signal. 2017 Mar 31;35:73-83.** , IF:4.191

8. Sripada L, Singh K, Poteryakhin A, Singh A, **Prajapati P**, Tomar D, Bhatelia K, Roy M, Singh R, Godbole M, Chumakov P, Singh R, hsa-miR-4485 translocates to mitochondria, regulate its functions and inhibits tumorigenic potential of the breast cancer cells. **J Mol Med (Berl). 2017 Feb 20. doi: 10.1007/s00109-017-1517-5, [Epub ahead of print].,** IF**:4.855**
9. Singh K, Zheltukhin A, Poteryakhina A, Bhatelia K, **Prajapati P**, Sripada L, Tomar D, Singh R., Singh AK., Chumakov P., Singh R., "NLRX1 acts as tumor suppressor by regulating TNF-α induced apoptosis and metabolism in cancer cells." ***Biochimica et biophysica acta, Molecular Cell Research,*** **2015 May;1853(5):1073-86** IF:**5.128**, Citations:**7**
10. Bhatelia K, Singh A, Tomar D, Singh K, Sripada L, Chagtoo M, **Prajapati P**, Singh R, Godbole MM, Singh R "Antiviral signaling protein MITA act as a tumor suppressor in breast cancer by regulating NF-κB induced cell death." ***Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, 2013. Feb;1842(2):144-53.*** IF:**5.158**,Citations:**5**

Patent (Filed)

2-Amino-3-cyano-3-(methylthio)-(substituted amino)acrylamide derivatives, 1938/MUM/2014, Chhabria Mahesh T. , Rajesh Singh, Yash Gadani, **Paresh Prajapati**

Presentation in International Conference:

Poster Presentation:

1. Tomar D, Singh R, Sripada L, **Prajapati P**, Singh AK, Singh R. TRIM8, a novel RING E3 ligase regulates NF-κB pathway and clonogenic/migration ability of the cells. International Symposium on Cancer Biology, National Institute of Immunology, New Delhi, India, November 14-16, 2011. Best poster award.
2. Sripada L, Tomar D, **Prajapati P**, Singh R, Singh AK, Singh R. Mitochondria: Preferred site of mature miRNA. SMRM 1st Annual Conference on "Mitochondria in Biology and Medicine, Centre for Cellular and Molecular Biology, Hyderabad, Andhra Pradesh, India, December 9-10, 2011.

3. Tomar D, Singh R, Singh AK, Singh R. TRIM13 regulates autophagosome biogenesis on ER membrane and suppresses clonogenic ability of cells via autophagy. The XXXV All India Cell Biology conference and symposium on Membrane dynamics and disease, National Institute of Science Education and Research (NISER), Bhubaneswar, Orissa, India, December 16-18, 2011.
4. Jain M, **Prajapati P**, Tomar D, Sripada L, Singh R, Singh AK, Singh R. TNF induces cell death in autophagy dependent manner in cell line model of Parkinson Diseases. 1st International Meet On Advance Studies in Cell Signaling Network, CSIR- Indian Institute of Chemical Biology, Kolkata, India, September 11-13, 2012.
5. Tomar D, Sripada L, **Prajapati P**, Singh R, Singh AK, Singh R. Nucleo-cytoplasmic translocation of TRIM8 is essential for positive regulation of TNF induced NF-κB pathway. 1st International Meet On Advance Studies in Cell Signaling Network, CSIR- Indian Institute of Chemical Biology, Kolkata, India, September 11-13, 2012 (Oral presentation).
6. Singh K, Tomar D, **Prajapati P**, Sripada L, Bhatelia K, Singh AK, Singh R, Chumakov PM, Singh R. The role of mitochondrial protein NLRX1 in regulation of TNF induced ROS and inflammation. 2nd Annual Conference of Society for Mitochondrial Research and Medicine-India "Mitochondria in Health and Disease". Central University of Gujarat, Gandhinagar, India, November 2-3, 2012. Best poster award.
7. Singh AK, Patel P, Singh R, **Prajapati P**, Tomar D, Sripada L, Singh K, Singh R. Mitochondrial ROS negatively regulates intracellular survival of S. aureus in human epithelial cells. 2nd Annual Conference of Society for Mitochondrial Research and Medicine-India "Mitochondria in Health and Disease". Central University of Gujarat, Gandhinagar, India, November 2-3, 2012. Best poster award.
8. Bhatelia K, Singh K, Tomar D, Lakshmi S, **Prajapati P**, Singh R. MITA induces cell death by regulation of NF-κB in MCF-7 breast cancer cell line. XXXVI All

India Cell Biology Conference & International Symposium On "Stress Adaptive Response and Genome Integrity", Bhabha Atomic Research Centre, Mumbai, India, October 17-19, 2012.

9. Sripada L, Tomar D, **Prajapati P**, Jain M, Singh R, Singh AK, Singh R. Systematic analysis of small RNA associated with human mitochondria. 2nd Annual Conference of Society for Mitochondrial Research and Medicine-India "Mitochondria in Health and Disease". Central University of Gujarat, Gandhinagar, India, November 2-3, 2012. Platform presentation.
10. Bhatelia K, Singh A, Tomar D, Singh K, Sripada L, Chagtoo M, **Prajapati P**, Singh R, Godbole M M, Singh R. MITA regulates cell death in breast cancer cells. XXXVII All India Cell Biology Conference. Indian Institute of Science, Bangalore, India, December 22-24, 2013
11. **Prajapati P**, Tomar D, Sripada L, Singh K, Singh R, Singh R, TRIM32 regulates oxidative stress induced cell death. XXXVII All India Cell Biology Conference. Indian Institute of Science, Bangalore, India, December 22-24, 2013
12. Sripada L, **Prajapati P**, Bhatelia K, Tomar D, Singh K, Singh A, Singh R, hsamiR-4485, a tumor suppressor miRNA, associates with human mitochondria by targeting mitochondrial GPD2. XXXVII All India Cell Biology Conference. Indian Institute of Science, Bangalore, India, December 22-24, 2013. Best poster award.
13. Bhatelia K, Singh A, Tomar D, Singh K, Sripada L, Chagtoo M, **Prajapati P**, Singh R, Godbole M M, Singh R. MITA, ER localized Interferon Regulator, acts as a tumor suppressor in breast cancer. 3rd Annual Conference of the SMRM on "Mitochondria in Health and Disease". National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, India, December 19-20, 2013.
14. Singh K, Bhatelia K, **Prajapati P**, Sripada L, Tomar D, Singh R, Singh AK, Chumakov P, Singh R. NLRX1 regulates TNF-A induced ROS production by modulating mitochondrial Complex III and Caspase-8 activity in breast cancer cells. 3rd Annual Conference of the SMRM on "Mitochondria in Health and

Disease". National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, India, December 19-20, 2013. Best poster award.

15. Sripada L, **Prajapati P**, Tomar D, Singh R. Effect of mitochondria associated miRNA, hsa-miR-4485 on 6-OHDA induced cell death in SHSY-5Y. 3rd Annual Conference of the SMRM on "Mitochondria in Health and Disease". National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, India, December 19-20, 2013.
16. Singh AK, Patel P, Tomar D, Singh R, Singh K, Roy M, **Prajapati P**, Singh R. Leucyl aminopeptidase, ubiquitin binding protein, inhibits NF-kB activity during Staphylococcus infection in human epithelial cells. International Symposium on Conceptual Advances in Cellular Homeostasis Regulated by Proteases and Chaperones: the Present, the Future and Impact on Human Diseases. Advanced Centre for Treatment Research and Education in Cancer, Mumbai, India, December 3-6, 2013.
17. Sripada L, **Prajapati P**, Tomar D, Singh R, Bhatelia K, Singh R. hsa-miR-4485, mitochondria associated miRNA affects mitochondrial functions and cell death. Travel award, sponsored by the International Federation of Cell Biology. Joint 7th Asian - Pacific Organization for Cell Biology congress and American Society for Cell Biology workshop on infectious diseases, at Biopolis, Singapore from 24 to 27 February 2014.
18. **Prajapati P**., Sripada L, Dalwadi P., Thakur S., Singh R., Singh R. "Clindamycin directly affects the mitochondrial function and homeostasis". 60th Diamond Jubilee Celebration on Emerging trends in biochemical science and Satellite Meeting on Stem Cell Research, Department of Biochemistry, M.S. University, Baroda, December 29-31, 2014.
19. Sripada L., **Prajapati P.**, Singh R., Singh R., "hsa-miR-320a associates with human mitochondria and modulates its function and cell death." 60th Diamond Jubilee Celebration on Emerging trends in biochemical science and Satellite

Meeting on Stem Cell Research, Department of Biochemistry, M.S. University, Baroda, December 29-31, 2014.

20. Sripada L, **Prajapati P**, Tomar D, Singh, Bhatelia K, Singh R. miRNA sequences aligns with mitochondrial genome, associates with mitochondria, alters in stress and modulates mitochondrial functions in various physio-pathological conditions. 38th Mahabaleshwar seminar, Mitochondria, Metabolism and Energetics, 27th to 30th January 2014, Mahabalshwar, India
21. Roy M, Tomar D, **Prajapati P**, Sripada L, Singh R, Bhatelia K, Singh R, "TRIM8, a novel regulator of autophagy, protects from genotoxic stress induced cell death"IFOM-inStem Conference on Inflammation and Tissue Homeostasis which was organised from 3-5 February, 2016 at inStem, NCBS, Bangalaore.