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## List of publication

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## **A. PUBLICATIONS FROM PH.D. THESIS WORK**

### **a. Research Articles:**

- **Bhatelia, K.,** et al. (2014). "Antiviral signaling protein MITA acts as a tumor suppressor in breast cancer by regulating NF-kappaB induced cell death." Biochim Biophys Acta **1842**(2): 144-153.
- **Bhatelia, K.,** et al. MITA regulates mitophagy to decrease the tumorigenic potential of breast cancer. (Manuscript under revision in cellular signalling)

### **b. Review Article:**

- **Bhatelia, K.,** et al. (2014). "TLRs: linking inflammation and breast cancer." *Cellular Signalling* 26(11): 2350-2357.

### **c. Poster Presentation in National and International Conference:**

- **Bhatelia K,** Singh A, Tomar D, Singh K, Sripada L, Chagtoo M, Prajapati P, Singh R, Godbole MM, Singh R. "MITA, ER localized Interferon Regulator, acts as a tumor suppressor in breast cancer" *SMRM 3<sup>rd</sup> Annual Conference on Mitochondria in Health and Disease*, National Institute of Mental Health and Neuro Sciences, Bangalore, Karnataka, India.
- **Bhatelia K,** Singh A, Tomar D, Singh K, Sripada L, Chagtoo M, Prajapati P, Singh R, Godbole MM, Singh R. "*MITA regulates cell death in breast cancer cells*" The XXXVII All India Cell Biology Conference on Cell Dynamics and Cell Fate, National Centre for Biological Sciences, Bangalore, Karnataka, India, December 22- 24, 2013
- **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.

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## **B. PUBLICATIONS FROM OTHER ASSOCIATED PROJECTS**

### **DURING PH.D. TENURE**

#### **a. Research Articles:**

- Singh K, Poteryakhina K, Zheltukhin A, **Bhatelia K**, Prajapati P, Sripada L, Tomar D, Singh R, Singh A, Chumakov P, Singh R. NLRX1 acts as tumor suppressor by regulating TNF- $\alpha$  induced apoptosis and metabolism in cancer cells. Molecular Cell Research. 2015
- Prajapati P, Sripada L, Singh K, **Bhatelia K**, Singh R, Singh R. TNF- $\alpha$  regulates miRNA targeting mitochondrial complex-I and induces cell death in dopaminergic cells. Molecular Basis of Disease. 2015
- Sripada L, Singh A, Prajapati P, **Bhatelia K**, Tomar D, Singh K, Roy M, Singh R, Godbole M, Chumakov P, Singh R. hsa-miR-4485 regulates mitochondrial functions and inhibits the tumorigenicity of breast cancer cells. Journal of Molecular Medicine. 2017
- Prajapati P, Dalwadi P, Sripada L, Singh K, Joshi B, **Bhatelia K**, Roy M, Singh R, Singh R. Enforced lysosomal biogenesis rescues Erythromycin and Clindamycin induced mitochondria mediated cell death in human cells. ((Under review in Mitochondrion)
- 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 H<sub>2</sub>O<sub>2</sub> induced cell death” Free Radic Biol Med. 2015
- Sripada L, Singh K, Roy M, Dalwadi P, Prajapati P, Singh A, **Bhatelia K**, Godbole M, Singh R. miR-320a associates with mitochondria, regulates mitochondrial complex-I assembly and activity to regulate cellular survival. (Manuscript under communication)

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## **b. Poster Presentation in National and International Conference:**

- 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.
- 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.
- Singh K, Bhatelia K, Prajapati P, Sripada L, Tomar D, Singh R, Singh AK, Chumakov P, Singh R. NLRX1 regulates TNF- $\alpha$  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.
- 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 7<sup>th</sup> 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
- 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

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- 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, Bangalore.