

List of Publications

A. PUBLICATIONS FROM PH.D. THESIS WORK

a. Research Articles:

1. **Roy M**, Tomar D, Singh K, Lakshmi S, Prajapati P, Bhatelia K, Gohel D, Singh R. TRIM8 regulated autophagy modulates the level of cleaved Caspase-3 subunit to inhibit genotoxic stress induced cell death. *Cell Signal*. 2018;48:1-12. Epub 2018/04/22 PubMed PMID: 29678622.
2. **Roy M**, Shinde A, Singh K, Singh J, Gohel D, Vasiyani H, Mane1 M, Currim F, Singh R. MID2/TRIM1 transcriptionally inhibits TRAF2 oncogene and negatively regulates TNF- α -induced NF- κ B pathway. **(Manuscript in communication)**
3. **Roy M**, Singh K, Shinde A, Bedekar S, Tailor Y, Gohel D, Vasiyani H, Mane1 M, Currim F, Singh R. Novel DUB-like activity of TRIM15: RING E3 ligase; regulates TNF- α -induced NF- κ B pathway in a feedback manner. **(Manuscript in communication)**

b. Platform and poster presentation at conference proceedings and workshops:

1. **Roy M**, Tomar D, Prajapati P, Sripada L, Singh K, Singh R. Autophagy mediated protection from cell death during genotoxic stress; role of TRIM8, a RING family ubiquitin E3 ligase. *International Symposium On Conceptual Advances in Cellular Homeostasis Regulated by Proteases and Chaperons; the Present, the Future and Impact on Human Diseases. ACTREC, Mumbai, India, December 3-6, 2013. (Platform Presentation)*
2. **Roy M**, Tomar D, Sripada L, Prajapati P, Singh K, 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. Bangalore India, February 3-5, 2016.*
3. **Roy M**, Singh K, Shinde A, Gohel D, Mane1 M, Shrivastava A, Currim F, Iyer M, Vasiyani H, Singh R. MID2/TRIM1; a feedback regulator of TNF α -induced NF- κ B affects autophagy and mitochondrial complex activity. *XLII All India Cell*

Biology Conference The Cell in Action: Trends in Cell and Molecular Biology. Goa, India, December 21-23, 2018. (Best Poster Award)

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

a. Research Articles:

1. Prajapati P, Dalwadi P, Gohel D, Singh K, Sripada L, Bhatelia K, Joshi B, **Roy M**, Wang WX, Springer JE, Singh R. Enforced lysosomal biogenesis rescues erythromycin- and clindamycin-induced mitochondria-mediated cell death in human cells. *Mol Cell Biochem.* 2019;461(1-2):23-36. Epub 2019/07/17. PubMed PMID: 31309409.
2. Gohel D, Sripada L, Prajapati P, Singh K, **Roy M**, Kotadia D, Tassone F, Charlet-Berguerand N, Singh R. FMRpolyG alters mitochondrial transcripts level and respiratory chain complex assembly in Fragile X associated tremor/ataxia syndrome [FXTAS]. *Biochim Biophys Acta Mol Basis Dis.* 2019;1865(6):1379-88. Epub 2019/02/17. PubMed PMID: 30771487.
3. Singh K, **Roy M**, Prajapati P, Lipatova A, Sripada L, Gohel D, Singh A, Mane M, Godbole MM, Chumakov PM, Singh R. NLRX1 regulates TNF-alpha-induced mitochondria-lysosomal crosstalk to maintain the invasive and metastatic potential of breast cancer cells. *Biochim Biophys Acta Mol Basis Dis.* 2019;1865(6):1460-76. Epub 2019/02/26. PubMed PMID: 30802640.
4. Singh K, Sripada L, Lipatova A, **Roy M**, Prajapati P, Gohel D, Bhatelia K, Chumakov PM, Singh R. NLRX1 resides in mitochondrial RNA granules and regulates mitochondrial RNA processing and bioenergetic adaptation. *Biochim Biophys Acta Mol Cell Res.* 2018;1865(9):1260-76. Epub 2018/06/23. PubMed PMID: 29932989.
5. Prajapati P, Sripada L, Singh K, **Roy M**, Bhatelia K, Dalwadi P, Singh R. Systemic Analysis of miRNAs in PD Stress Condition: miR-5701 Modulates

Mitochondrial-Lysosomal Cross Talk to Regulate Neuronal Death. *Mol Neurobiol.* 2018;55(6):4689-701. Epub 2017/07/16. PubMed PMID: 28710704.

6. Sripada L, Singh K, Lipatova AV, Singh A, Prajapati P, Tomar D, Bhatelia K, **Roy M**, Singh R, Godbole MM, Chumakov PM. hsa-miR-4485 regulates mitochondrial functions and inhibits the tumorigenicity of breast cancer cells. *J Mol Med (Berl).* 2017;95(6):641-51. Epub 2017/02/22. PubMed PMID: 28220193.
7. Bhatelia K, Singh K, Prajapati P, Sripada L, **Roy M**, Singh R. MITA modulated autophagy flux promotes cell death in breast cancer cells. *Cell Signal.* 2017;35:73-83. Epub 2017/04/04. PubMed PMID: 28366813.
8. Tomar D, Prajapati P, Lavie J, Singh K, Lakshmi S, Bhatelia K, **Roy M**, Singh R, Benard G. TRIM4; a novel mitochondrial interacting RING E3 ligase, sensitizes the cells to hydrogen peroxide (H₂O₂) induced cell death. *Free Radic Biol Med.* 2015;89:1036-48. Epub 2015/11/03. PubMed PMID: 26524401.

b. Platform and poster presentation at conference proceedings and workshops:

1. 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 organization and Dynamics, Kerala, India, December 6- 8, 2015.
2. Singh K, Prajapati P, **Roy M**, Sripada L, Bhatelia K, Dalwadi P, Singh R, Chumakov PM, Singh R. NLRX1 regulates TNF- α mediated mitochondrial turnover by modulating lysosomal function. *IFOM-inStem Conference on Inflammation and Tissue Homeostasis. Bangalore India, February 3-5, 2016. (Selected for short talk)*
3. Gohel D, Sripada L, **Roy M**, Singh K, Prajapati P, Dalwadi P, Bhatelia K, Berguerand NC, Singh R. FXTAS, a CGG repeats associated disorder: Alteration in mitochondrial functions, morphology and dynamics. *XL all India cell biology conference*

& international symposium on “functional genomics and epigenomics”, Gwalior, India, November 17-19, 2016.

4. Gohel D, Sripada L, Singh K, Lipatova A, Singh A, Prajapati P, Tomar D, Bhatelia K, **Roy M**, Singh R. hsa-miR-4485, a mitomiR, regulates mitochondrial RNA processing and function. *The 2017 Winter school entitled “Mitochondria at the crossroad”. Strasbourg, France, December 8th 2017.*

5. **Roy M**, Singh K, Sripada L, Prajapati P, Gohel D, Shinde A, Obolenkaya M, Singh R. TRIM25; a novel regulator of autophagy and hepatic cell proliferation, may affect liver regeneration. *India- EMBO Symposium on Autophagy: Cellular mechanisms and significance in health and disease. Bhubaneswar, India, December 11 – 13, 2017.*