

CURRICULUM-VITAE

Name : Rajesh Singh

Corresponding Address: Department of Biochemistry
The MS University of Baroda,
Vadodara, GJ-390002, India

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Educational Qualifications:

Degree	University	Year	Subjects	Class
Graduation	Lucknow University	1994	Chemistry, Physics, Math's	First
Post- Graduation	Goa University	1996	Biotechnology	First
Ph.D.	SG Post-Graduate Institute of Medical Science	2002	Mol Endocrinology	

A. PROFESSIONAL EXPERIENCES

12/1997– 12/1999 Junior research fellow at SG Postgraduate Institute of Medical Sciences, Lucknow, India.

12/1999– 05/2002 Senior research fellow at SG Postgraduate Institute of Medical Sciences, Lucknow, India.

05/2002-10/2002 Postdoc Fellow at NIEHS/NIH, NC, USA

10/2002 -05/2006 Post-doctoral fellow at Center for Apoptosis Research, Kimmel Cancer Center, Thomas Jefferson University, Philadelphia.

11/2007-02/2008 Marie Curie More Experienced Researcher

07/2006-08/2013 Assistant professor and Group Leader at Indian Institute of Advanced Research, Gandhinagar, Gujarat, India

08/2013-08/2016 Associate Professor, Department of Biochemistry, The MS University of Baroda, Vadodara, GJ, India

08-2016-03/2021 Professor (On Lein) , Department of Biochemistry, The MS University of Baroda, Vadodara, GJ, India

08/2019-Till Date Deputy Director, Centre for Inter-disciplinary Research, The MS University of Baroda, Vadodara, GJ, India

03/2021-Till date Professor, Mol and Human Genetics, Banaras Hindu University, Varanasi 221005, UP, India

SCHOLASTIC ACHIEVEMENTS

Qualified Graduate Aptitude Test in Engineering (GATE-96) in life sciences
Qualified joint CSIR-UGC National Eligibility Test for Junior Research Fellowship and eligibility for Lectureship
Qualified All India Biotech Exam for Master Degree in Biotechnology

AWARDS

Selected for Indo-US-STF Fellowship award-2011-2012

Marie Curie More Experienced Researcher NUI, Galway-2007-08, Ireland

NIH Forgarty International Award for Postdoctoral Study

Senior Research Fellowship (1998-02) from CSIR, Govt. of India.

Junior Research Fellowship (1996-98) from CSIR, Govt. of India.

CERTIFICATE for First Position SCIENCE QUIZ at UNIVERSITY LEVEL.

CERTIFICATE for First POSITION in EXTEMPORE at UNIVERSITY LEVEL

GOLD MEDAL for getting **First Position** in college.

GOLD MEDAL for getting **highest marks** in Physics, Chemistry and Mathematics.

Many awards at the school level for academic achievements.

Awards and Certificates for excellence in essay writing and quizzes.

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MEMBERSHIP

Member of National Academy of Medical Sciences

Member of All India Society of Cell Biology

Member of **THE ENDOCRINE SOCIETY, Bethesda, USA.**

Member of international **The Mitochondrion Society**, Bethesda, USA

Member of **ACADEMIC HONOURS SOCIETY** of college.

Member of **ACADEMIC HONOURS SOCIETY** of **CHEMISTRY.**

Reviewer

Editorial Board Member for CLINICAL AND TRANSLATIONAL NEUROSCIENCE (CTN), Official Journal of Swiss National Academy of Sciences

Adhoc reviewer for the following journals and foundations:

Human and Experimental Toxicology, J of Cell Biochemistry

Oncotarget

Alzheimer Foundation

Department of Biotechnology, Govt of India

B. PUBLICATIONS

1. **Rajesh Singh** Geeta Upadhyay, Amit Kapoor, Sanjeev Kumar, Ashok Kumar, Meenakshi Tiwari and Madan M. Godbole (2002) Hypothyroidism alters expression of Bcl-2 family genes to induce apoptosis in rat developing cerebellum. **J Endocrinology** 176(1): 39-46. (UGC Care No. 7315, ISSN: 220795, PMID: 12525248)
2. **Rajesh Singh** Geeta Upadhyay and Madan M. Godbole (2002) Hypothyroidism alters mitochondrial morphology to induce release of apoptogenic proteins in

- developing rat cerebellum. **J Endocrinology** 176(3):321-329. (UGC Care No. 7315, ISSN: 220795, PMID: 12630917)
3. Geeta Upadhyay, **Rajesh Singh**, Gaurav Agarwal, Lily Pal, Pradahn PK, Das BK, Saroj K. Misra and Madan M. Godbole (2002) Enhanced Expression of Sodium Iodide Symporter (hNIS) Gene in human breast carcinoma tissue. **Breast Can Res Treatment** 77:157-165. (PMID: 12602914, ISSN: 0167-6806)
 4. Geeta Upadhyay, **Rajesh Singh**, Ramesh Sharma, Anil K Balapure, Madan M. Godbole (2002) Iodine acts directly on mitochondria from tumoral breast tissue to induce apoptosis independent of cytochrome c. **Mitochondrion** 2(3):199-210 (PMID: 16120321, ISSN: 1567-7249)
 5. Geeta Upadhyay, **Rajesh Singh**, Amit Kapoor, Sanjeev Kumar, Ashok Kumar, Menakshi Tiwari and Madan M. Godbole (2004) Severe hyperthyroidism induces mitochondrial-mediated apoptosis in rat liver. **Hepatology** 39(4):1120-30 (ISSN: 0270-9139).
 6. Gupta S, **Singh R***, Datta P, Zhang Z, Orr C, Lu Z, DuBois G, Zervos AS, Meisler MH, Srinivasula SM, Fernandes-Alnemri T, Alnemri ES (2004) The carboxy terminal tail of presenilin regulates Omi/HtrA2 protease activity. **J Biol Chem.** Oct 29;279(44):45844-54 (PMID: 15294909, ISSN: 0021-9258).
 7. Kumar A, Sinha RA, Tiwari M, Pal L, Shrivastava A, **Singh R**, Kumar K, Kumar Gupta S, Godbole MM. (2006) Increased pro-Nerve Growth Factor and p75NTR levels in developing hypothyroid rat cerebral cortex are associated with enhanced apoptosis. **Endocrinology** 2006 Oct;147 (10):4893-903.(ISSN: 0013-7227)
 8. Kumar A, Sinha RA, Tiwari M, **Singh R**, Koji T, Manhas N, Rastogi L, Pal L, Shrivastava A, Sahu RP, Godbole MM. Hyperthyroidism induces apoptosis in rat liver through activation of death receptor-mediated pathways. **J Hepatol.** 2007 May;46(5):888-98. Epub 2007 Feb 5 (PMID: 17321637, ISSN: 0168-8278).
 9. Patel, D., M. P. Suthar, V. Patel, and R. Singh. "BCR ABL KINASE INHIBITORS FOR CANCER THERAPY". International Journal of Pharmaceutical Sciences and Drug Research, Vol. 2, no. 2, Apr. 2010, pp. 80-90. (ISSN: 0975-248X)
 10. Tomar D, Singh R, Singh AK, Pandya CD, **Singh R***. TRIM13 regulates ER stress induced autophagy and clonogenic ability of the cells. **Biochim Biophys Acta. (Mol Cell Res)** 2011 Dec 8;1823(2):316-326. [PMID: 22178386], ISSN: 0167-4889
 11. Singh AK, Singh R, Tomar D, Pandya CD, **Singh R*** (2012) The Leucine aminopeptidase of Staphylococcus aureus is secreted and contributes to biofilm

- formation. **Int J Infect Dis.** 2012 May;16(5):e375-81. Epub 2012 Mar 10. (ISSN: 1201-9712)
12. Sripada L, Tomar D, Prajapati P, Singh R, Singh AK, **Singh R*** (2012) Systematic Analysis of Small RNAs Associated with Human Mitochondria by Deep Sequencing: Detailed Analysis of Mitochondrial Associated miRNA. **PLoS ONE** 7(9): e44873. (ISSN: 1932-6203)
 13. Tomar D Prajapati P, Sripada L, Singh R, Singh AK, **Singh R*** (2012) Nucleo-cytoplasmic trafficking of TRIM8, a novel oncogene, is involved in positive regulation of TNF induced NF- κ B pathway. **PLoS One** 2012;7(11):e48662. (ISSN: 1932-6203)
 14. Sripada L, Tomar D, **Singh R*** (2012). Mitochondria: One of the destination of miRNA. **Mitochondrion** Nov;12(6):593-9 (PMID: 23085198, ISSN: 1567-7249)
 15. Tomar D Prajapati P, Sripada L, Singh R, Singh AK, **Singh R*** (2013) TRIM13 regulates caspase-8 ubiquitination, translocation to autophagosomes and activation during ER stress induced cell death. **Biochim Biophys Acta.** 2013 Sep 8;1833(12):3134-3144. (PMID: 24021263) ISSN: 0167-4889
 16. Rajpara N, Vinothkumar K, Mohanty P, Singh AK, **Singh R**, Sinha R, Nag D, Koley H, Kushwaha Bhardwaj A. Synergistic effect of various virulence factors leading to high toxicity of environmental V. cholerae non-O1/ non-O139 isolates lacking ctx gene : comparative study with clinical strains. **PLoS One.** 2013 Sep 23;8(9):e76200 (PMID: 24086707)
 17. Singh R, Sripada L, **Singh R*** (2014) "Side effects of antibiotics during bacterial infections: Mitochondria, the main target in host cell **Mitochondrion.** 2014 May;16:50-4, ISSN: 1567-7249
 18. Bhatelia K, Singh A, Tomar D, Singh K, Sripada L, Chagtoo M, Prajapati P, Singh R, Godbole MM, **Singh R***. Antiviral signaling protein MITA acts as a tumor suppressor in breast cancer by regulating NF- κ B induced cell death. **Mol Basis of Diseases (BBA).** 2014 Feb;1842(2):144-53. ISSN: 0925-4439 (PMID: 24239807)
 19. Tomar D, **Singh R***. TRIM13 regulates ubiquitination and turnover of NEMO to suppress TNF induced NF- κ B activation. **Cell Signal.** 2014 Dec;26(12):2606-13. [Epub ahead of print] , ISSN: 0898-6568 (PMID: 25152375)
 20. Bhatelia K, Singh K, **Singh R***. TLRs: Linking inflammation and breast cancer. **Cell Signal.** 2014 Aug 3;26(11):2350-2357. doi: 10.1016/j.cellsig.2014.07.035. [Epub ahead of print] ISSN: 0898-6568 Review (PMID: 2509380)

21. Tomar D, Singh R. TRIM family proteins; Emerging class of RING E3 ligases as regulator of NF- κ B pathway. **Biol Cell.** **2015** Jan;107(1):22-40 (PMID:25319221), 1768-322X
22. 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. **BBA - Molecular Basis of Disease.** Biochim Biophys Acta. 2015 Mar;1852(3):451-61. (ISSN: 0925-4439)
23. Singh K, Poteryakhina A, Zheltukhin A, Bhatelia K, Prajapati P, Sripada L, Tomar D, Singh R, Singh AK, Chumakov PM, **Singh R***. NLRX1 acts as tumor suppressor by regulating TNF- α induced apoptosis and metabolism in cancer cells. **Mol Cell Res Biochim Biophys Acta.** 2015 May;1853(5):1073-86 (PMID: 25639646) ISSN: 0167-4889
24. Tomar D, Prajapati P, Lavie J, Singh K, Lakshmi S, Bhatelia K, Roy M, Singh R, Bénard G, **Singh R***. TRIM4; a novel mitochondrial interacting RING E3 ligase, sensitizes the cells to hydrogen peroxide (H₂O₂) induced cell death. **Free Radic Biol Med.** 2015 Oct 31;89:1036-1048. (ISSN: 0891-5849)
25. Sripada L, Singh K, Lipatova AV, Singh A, Prajapati P, Tomar D, Bhatelia K, Roy M, Singh R, Godbole MM, Chumakov PM, **Singh R***. hsa-miR-4485 regulates mitochondrial functions and inhibits the tumorigenicity of breast cancer cells. **J Mol Med (Berl).** 2017 Jun;95(6):641-651. (PMID: 28220193) (ISSN: 0946-2716)
26. 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 Jul;35:73-83 (PMID: 28366813) (ISSN:0898-6568)
27. Singh AK, Patel P, Tomar D, Singh R, Sripada L, Prajapati P, Singh K, **Singh R***. TBK1 regulates p62/sqstm1 mediated autophagic clearance of intracellular ubiquitinated Staphylococcus aureus in human epithelial cells. **Transl Genet Genom** 2017 May [Online First]
28. 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 Jun;55(6):4689-4701 (ISSN: 0893-7648) (PMID: [28710704](#))
29. 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 Aug;48:1-12. (PMID: 29678622), ISSN: 0898-6568

30. 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. *BBA Mol Cell Res.* 2018 Jun 20;1865(9):1260-1276. (PMID: 29932989) ISSN: 0167-4889
31. Pandeya A, Singh K, Patel C, **Singh R**, Patel C, Sawant K. (2019) Hyaluronic acid tethered pH-responsive alloy-drug nanoconjugates for multimodal therapy of glioblastoma: An intranasal route approach. *Materials Science and Engineering: C* 98, 419-436 (PMID: 30813043) ISSN: 0928-4931
32. 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 Jun 1;1865(6):1379-1388 (PMID: 30771487) ISSN: ISSN: 0925-4439
33. Singh K, Roy M, Prajapati P, Sripada L, Anastasia Lipatova, Mane M, Chumakov, **Singh R***, NLRX1 regulates TNF- α -induced mitochondria-lysosomal crosstalk to maintain the invasive and metastatic potential of breast cancer cells *Biochimica et Biophysica Acta (BBA) - Biochim Biophys Acta Mol Basis Dis.* 2019 Jun 1;1865(6):1460-1476 (ISSN: 0925-4439)
34. Prajapati P, Dalwadi P, Gohel D, Singh K, Sripada L, Bhatelia K, Joshi B, Roy M, Wang W, Springer JE, Singh R, **Singh R*** (2019) Enforced lysosomal biogenesis rescues erythromycin- and clindamycin- induced mitochondria-mediated cell death in human cells. *Mol Cell Biochem.* 2019 Nov;461(1-2):23-36 (PMID: 31309409) (ISSN: 0300-8177)
35. Abhijeet Pandey, Kritarth Singh, Suresh Subramanian, Aruna Korde, **Rajesh Singh**, Krutika Sawant (2020) Heterogeneous Surface Architected pH Responsive Metal-Drug Nano-conjugates for Mitochondria Targeted Therapy of Glioblastomas: A Multimodal Intranasal Approach. *Chemical Engineering Journal* Volume 394, 15 August 2020, 124419 (ISSN: 1385-8947)
36. Gohel D, Berguerand NC, Tassone F, **Singh R*** (2020) The emerging molecular mechanisms for mitochondrial dysfunctions in FXTAS. *Biochim Biophys Acta Mol Basis Dis.* 2020 Aug 12;1866(12):165918 ((ISSN: 0925-4439)
37. Prajapati P, Gohel D, Shinde A, Roy M, Singh K, **Singh R***. (2020) TRIM32 regulates mitochondrial mediated ROS levels and sensitizes the oxidative stress induced cell death. *Cellular Signaling* 76, 109777 (PMID: 32918979) (ISSN: 0898-6568)
38. Gohel D, **Singh R*** (2021) Mitohormesis; Potential implications in neurodegenerative diseases. *Mitochondrion*, 2021, 50, 40-46 (ISSN: 1567-7249)

39. Currima F, Singh J, Shinde A, Gohel D, Roy M, Singh K, Shukla S, Mane M, Vasiyani H, **Singh R*** (2021) Exosome release is modulated by the mitochondrial-lysosomal crosstalk in Parkinson's Disease stress conditions. *Mol Neurobiology* 58, 1819-1833 (ISSN: 0893-7648)
40. Goyani S, Roy M, **Singh R*** (2021) TRIM-NHL as RNA binding Ubiquitin E3 Ligase (RBUL): Implication in development and disease pathogenesis. *Biochim Biophys Acta Mol Basis Dis.* 2021 Jan 5: 186 (7) 166066 ((ISSN: 0925-4439)
41. Gohel D, Sripada L, Prajapati P, Singh K, Roy M, Kotadia D, Tassone F, Charlet-Berguerand N, **Singh R*** (2021) Expression of expanded FMR1-CGG repeats alters mitochondrial miRNAs and modulates mitochondrial functions and cell death in cellular model of FXTAS. *Free Radical Biology and Medicine* Mar;165:100-110 (ISSN: 0891-5849)
42. Vasiyani H, Shinde A, Roy M, Mane M, Singh K, Singh J, Gohel D, Currim F, Vaidya K, Chhabria M, **Singh R***. (2021) The analog of cGAMP, c-di-AMP, activates STING mediated cell death pathway in estrogen-receptor negative breast cancer cells. *Apoptosis* Jun;26(5-6):293-306 (ISSN: 1360-8185)
43. Shinde A, Jung H, Lee H, Singh K, Roy M, Gohel D, Kim HB, Mane M, Vasiyani H, Currim F, Seo YR, Yang S, Cho A, Yi EC, **Singh R ***(2021) TNF- α differentially modulates subunit levels of respiratory electron transport complexes of ER/PR +ve/-ve breast cancer cells to regulate mitochondrial complex activity and tumorigenic potential. *Cancer and Metabolism* Apr 29;9(1):19. doi: 10.1186/s40170-021-00254-9 (ISSN: 2049-3002)
44. Jani P, Suman S, Subramanian S, Korded A, Gohel D, **Singh R**, Sawant K, Development of mitochondrial targeted theranostic nanocarriers for treatment of gliomas. *Journal of Drug Delivery Science and Technology* Volume 64, August 2021, 102648. (ISSN: 1773-2247)
45. Roy M and **Singh R.*** TRIMs: selective recruitment at different steps of the NF- κ B pathway-determinant of activation or resolution of inflammation. *Cell Mol Life Sci* 2021 Sep;78(17-18):6069-6086. (ISSN: 1420-682X)
46. Roy M, Singh K, Singh J, **Singh R.*** TNF- α -induced E3 ligase, TRIM15 inhibits TNF- α -regulated NF- κ B pathway by promoting turnover of K63 linked ubiquitination of TAK1 Accepted in Dec 2021 (ISSN: 0898-6568)
47. Dhruv G and **Singh R*** (2022) Different platforms for mito-miRs in mitochondria: Emerging facets in regulation of mitochondrial functions. *Mitochondrion* 66, 67-73 (ISSN: 1567-7249)
48. Vasiyani H, Mane M, Rana K, Shinde A, Roy M, Singh J, Gohel D, Currim F, Srivastava R, **Singh R** (2022) DNA damage induces STING mediated IL-6-

- STAT3-PD-L1 survival pathway in triple-negative breast cancer cells and decreased survival of breast cancer patients. *Apoptosis*, 27, 961-78
49. Gohel D, Shukla S, Rajan WD, Wojtas B, Kaminska B, **Singh R** (2023) Altered trafficking of miRNAs at mitochondria modulates mitochondrial functions and cell death in brain ischemi. *Free Radic Biol Med*. 2023 Apr;199:26-33.
 50. Bora VR, Gohel D, **Singh R**, Patel BM. (2023) Evaluation of selected antidiabetics in cardiovascular complications associated with cancer cachexia. *Mol Cell Biochem* 478(4):807-820.
 51. Vasiyani H, Wadhwa B, SinghR., (2023) Regulation of cGAS-STING signalling in cancer: Approach for combination therapy. *Biochim Biophys Acta Rev Cancer* 1878(3):188896.
 52. Shukla S, Currim F, Singh J, Goyani S, Saranga MV, Shinde A, Mane M, Chandak N, Kishore S, **Singh R*** (2023) hsa-miR-320a mediated exosome release under PD stress conditions rescue mitochondrial ROS and cell death in the recipient neuronal and glial cells. *The International Journal of Biochem Cell Bio* : 162
 53. Goyani S, Shinde A, Shukla S, Saranga MV, Currim F, Mane M, Singh J, Roy M, Gohel D, Chandak N, Vasiyani H, **Singh R***. (2024) Enhanced translocation of TRIM32 to mitochondria sensitizes dopaminergic neuronal cells to apoptosis during stress conditions in Parkinson's disease. *FEBS journal* : 291(12):2636-2655
 54. Shinde, A.; Tang, X.; **Singh R.***; Brindley, D.N. (2024) Infliximab, a Monoclonal Antibody against TNF- α , Inhibits NF- κ B Activation, Autotaxin Expression and Breast Cancer Metastasis to Lungs. *Cancers*, 16, 52
 55. Shinde A, Chandak N, Singh J, Roy M, Mane M, Tang X, Vasiyani H, Currim F, Gohel D, Shukla S, Goyani S, Saranga MV, Brindley DN, **Singh R***. (2024) TNF- α induced NF- κ B mediated LYRM7 expression modulates the tumor growth and metastatic ability in breast cancer. *Free Radic Biol Med* :211:158-170
 56. Currim F, Shukla S, Singh J, Gohel D, Mane M, Shinde A, Roy M, Goyani S, Vasiyani H, Chandran A, Rochet J, Cannon J, **Singh R*** (2024) Neuronal exosomal miRNAs modulate mitochondrial functions and cell death in bystander neuronal cells under Parkinson's disease stress conditions. *Neurotoxicology* :101:102-116

• Contributed equally * Corresponding author

Book Chapter:

TRIM13, Novel Tumor Suppressor, Regulator of crosstalk of autophagy and cell death. Chapter Autophagy Vol (1): 2013 (ISBN: 978-0-12-405530-8)

Patent Filed/Granted:

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

Invited Talks at International Meetings:

1. **Rajesh Singh, TRIMs: Critical regulator of Trioka: Autophagy, inflammation and Cell Death.** International Congress of Cell Biology-2018, CCMB, Hyderabad, India, January 27th-31st 2018.
2. **Rajesh Singh, NODs: NODs: NLRX1: Beyond immunity, emerging role in mitochondria.** The Society for Mitochondrial Research and Medicine, India and CSIR-CDRI are jointly organizing the 7th Annual Conference of the Society from 28-30th Nov, 2018

Paper/Poster Presented/ Conference Attended

3. **Rajesh Singh**, Geeta Upadhyay, Amit Kapoor and Madan M. Godbole, (2000) Triiodothyronine (T3) Modulates Mitochondrial Mediated Apoptosis in Isolated Rat Hepatic Nuclei. Paper presentation at International Meeting of "Cell Death and Differentiation" held at Bangalore, India
4. **Rajesh Singh**, Geeta Upadhyay, Amit Kapoor, Madan M. Godbole (2000) Triiodothyronine induces release of cytochrome c and other apoptogenic factors from brain mitochondria independent of mitochondrial permeability transition. Paper presented at 6th Reissensberg International Symposium held at Reissensburg, Germany.
5. **Rajesh Singh**, Geeta Upadhyay, Amit Kapoor, Madan M. Godbole (2000) Triiodothyronine induces release of cytochrome c and other apoptogenic factors from brain mitochondria independent of mitochondrial permeability transition. Paper presented at 74th Annual Meeting of the American Thyroid Association held at Kyoto Japan.
6. **Rajesh Singh** Geeta Upadhyay, Ashok Kumar, Meenakshi Tiwari and Madan M. Godbole (2002) Hypothyroidism alters mitochondrial morphology to induce release of apoptogenic proteins in developing rat cerebellum. Paper presented at International conference on Thyroid hormone and Brain Development held at NIH, Durham, NC, USA

7. **Rajesh Singh** Geeta Upadhyay, Ashok Kumar, Meenakshi Tiwari and Madan M. Godbole (2002) Hypothyroidism alters mitochondrial morphology to induce release of apoptogenic proteins in developing rat cerebellum. Paper presented at 76th Annual Meeting of the American Thyroid Association held at Los Angeles, USA.
8. **Rajesh Singh** Geeta Upadhyay, Ashok Kumar, Meenakshi Tiwari and Madan M. Godbole (2002) Hyperthyroidism induces apoptosis in adult cerebral cortex: Direct action of T3 on mitochondria. Paper presented at 76th Annual Meeting of the American Thyroid Association held at Los Angeles, USA.
9. Geeta Upadhyay, **Rajesh Singh**, Gaurav Agarwal, Lily Pal, Saroj K. Misra and Madan M. Godbole (2000) Expression of Sodium Iodide Symporter Gene in Human Breast Carcinoma. Poster presented at National Meeting of Breast Carcinoma, held at Nagpur, India.
10. Geeta Upadhyay, **Rajesh Singh**, Gaurav Agarwal, Lily Pal, Saroj K. Misra and Madan M. Godbole (2000) Altered Expression of human Sodium Iodide Symporter gene in human breast carcinoma tissue. Paper presented at 6th Reizensberg International Symposium held at Reisenburg, Germany.
11. Geeta Upadhyay, **Rajesh Singh**, Gaurav Agarwal, Lily Pal, Saroj K. Misra and Madan M. Godbole (2001) Altered expression of Sodium Iodide Symporter in human breast cancer tissue. Poster presented at International Congress of Endocrinology held at Sydney Australia.
12. Geeta Upadhyay, **Rajesh Singh**, Ramesh Sharma, Anil K Balapure, Madan M. Godbole (2002) Iodine acts directly on mitochondria from tumoral breast tissue to induce apoptosis independent of cytochrome c. Paper presented at International conference on Thyroid hormone and Brain Development held at NIH, Durham, NC, USA
13. Geeta Upadhyay, **Rajesh Singh**, Ramesh Sharma, Anil K Balapure, Madan M. Godbole (2002) Iodine acts directly on mitochondria from tumoral breast tissue to induce apoptosis independent of cytochrome c. Paper presented at 76th Annual Meeting of the American Thyroid Association held at Los Angeles, USA.
14. Tomar D, Singh AK, **Singh R**. Conjugation of endogenous Escherichia coli and Staphylococcus aureus proteins through human small ubiquitin like modifier (SUMO) protein. *International Conference on Emerging Trends in Biotechnology*, Banaras Hindu University, Varanasi, India, December 04-06, 2009.
15. Singh AK, Singh R, Tomar D, Pandya C, **Singh R**. Identification and biochemical characterization of Leucyl aminopeptidase from Staphylococcus

- aureus. *International Conference on Understanding and Managing Pathogenic Microbes*, Institute of Microbial Technology, Chandigarh, India, January 22-24, 2010.
16. Tomar D, Singh R, Pandya C, Singh AK, **Singh, R.** TRIM13, a novel regulator of Endoplasmic Reticulum Associated Protein Degradation pathway. *XXXIV All India Cell Biology Conference and Symposium on "Quantitative Biology: from Molecules to Cells"* Bose Institute Kolkata, West Bengal, India, December 04-06, 2010 (**Oral presentation**).
 17. Tomar D, Singh R, Sripada L, Prajapati P, Singh AK, **Singh R.** TRIM8, a novel RING E3 ligase regulates NF- κ B 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**.
 18. 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.
 19. 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.
 20. 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.
 21. 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- κ B 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**).
 22. 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.**

23. 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.**
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25. 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.**
26. 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
27. 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
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