Publications and Oral/Poster Presentations

10.1 PUBLICATIONS FROM Ph.D. THESIS WORK

10.1.1 Research Articles

1. **Rajubhai Dabhi**, Ragi Mehta, Dhruvi Kakadiya, Ravi Vijayvargia. Kinetin mediated mutant huntingtin phosphorylation restores multiple dysregulated pathways in a cell line model of Huntington's disease. (Under review)

2. **Rajubhai Dabhi**, Pawan Tagadghar, Ravi Vijayvargia. BMS 345541 and Bay 11-7082 exhibits neuroprotective effects by alleviating mitochondrial dysfunction and lowering endoplasmic reticulum stress in 150Q mutated huntingtin-expressing cells. (Manuscript in Communication)

3. **Rajubhai Dabhi**, Anwesha Biswas, Rohit Satardekar, Ravi Vijayvargia. The rescue of the mutant Huntingtin phenotype by Ser13 and Ser16 residue replacement with phosphomimetic aspartate is PRC2 dependent. (Manuscript in Communication)

4. **Rajubhai Dabhi**, Joel Christie, Prasanna Venkatraman, Ravi Vijayvargia. Label-free quantitative proteomics identifies key proteins modulating mutant Huntingtin toxicity in HD150Q cells. (Manuscript in Communication)

10.1.2 Review Articles

1. **Rajubhai Dabhi** and Ravi Vijayvargia. Role of Polycomb repressive complex 2 (PRC2) in neurodegenerative diseases. (Manuscript Under Preparation)

10.1.3 Platform and Poster Presentation at Conference Proceedings

1. **Rajubhai Dabhi** and Ravi Vijayvargia. (2024) Kinetin inhibits mutant huntingtin aggregation and rescues mitochondrial dysfunction, endoplasmic reticulum stress and cell viability in HD150Q cell line model of Huntington's disease. *National Conference on Scientific Innovations towards Developed India held at Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, India.* (Platform Presentation) **(Awarded best oral presentation)**

10.2. PUBLICATIONS FROM OTHER ASSOCIATED PROJECTS DURING Ph.D. TENURE

10.2.1 Research Articles

1. **Rajubhai Dabhi**, Ragi Mehta, Jayshree Paneri, Dhruvi Kakadiya, Anjali Shah, Sushmita Singh, Ravi Vijayvargia. Determination of neuroprotective effects of medium chain fatty acids and their

derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease. *Indian Journal of Biochemistry and Biophysics (IJBB)* 2023, 60 (9), 741-749.

2. Roshni Bhatt, Hitarthi Vyas, **Rajubhai Dabhi**, Julie Tahilramani, Rakesh Shah, Suvorit Bhowmick, Ravi Vijayvargia. F04 Genotype-phenotype correlation of huntingtin CAG repeat expansion and associated symptoms in a large Indian family carrying Huntington's disease mutation. *Journal of Neurology, Neurosurgery & Psychiatry* 2018, 89, A41-A42.

3. Dhruvi Kakadiya, Anjali Shah, **Rajubhai Dabhi**, Ravi Vijayvargia. Development of a sensitive and affordable alternative ELISA method for detection of IgG antibodies in human serum. (Manuscript in Communication)

4. Karan Joshi, **Rajubhai Dabhi**, Om Prajapati, Dharmraj Pathak, Ragi Mehta, Taher Darreh-Shori, Banita Thakur, Ravi Vijayvargiya and Prashant Murumkar. Design, Synthesis and Biological evaluation of novel vicinal diaryl pyrazole as potent Neuroprotective agents. (Manuscript in Communication)

10.2.2 Platform and Poster Presentation at Conference Proceedings

1. **Rajubhai Dabhi**, Jayshree Paneri, Ragi Mehta, Ravi Vijayvargia. (2023) Determination of Neuroprotective effects of Medium chain Fatty acids on Mutant Huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease. *The International Conference on "Celebrating Proteins on the Birth Centenary of Dr. G. N. Ramachandran" held at Department of Biochemistry, The Maharaja Sayajirao University of Baroda, Vadodara, India.* (Poster presentation)

2. Jayshree Paneri, **Rajubhai Dabhi**, Ravi Vijayvargia. (2023) Neuroprotective effects of medium chain fatty acids on Huntington's disease. *Department of Biotechnology, Mohanlal Sukhadia University, Udaipur, Rajasthan, India.* (Poster presentation) **(Awarded 2nd best poster presentation)**

3. Ragi Mehta, **Rajubhai Dabhi** and Ravi Vijayvargia. (2023) Elucidating the role of secretome on oxidative stress and cell viability in Huntington's Disease. *Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, The Maharaja Sayajirao University of Baroda, Vadodara.* (Poster presentation) **(Awarded 3rd best poster presentation)**

4. **Rajubhai Dabhi** and Ravi Vijayvargia. (2022) Deciphering the role of secretome in Huntington's Disease pathogenesis. *Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, The Maharaja Sayajirao University of Baroda, Vadodara.* (Poster presentation)