

Statement of Research Achievements, if any, on which any Award has already been received by the Applicant. Please also upload brief citations on the research works for which the applicant has already received the awards

1. Citation: Understanding Mechanisms of Autophagy

Award: S Ramachandran-National Bioscience Award for Career Development- DBT-2019

Statement of Research Achievements

Dr. Chauhan's research work has attempted to understand the molecular mechanisms by which autophagy plays a decisive role in health and controlling diseases. In an important contribution to the autophagy field, he showed a novel molecular mechanism of biogenesis of protein aggregates under oxidative and proteotoxic stress conditions. In the same study, he and his group uncovered the molecular mechanism by which the stress-induced toxic protein aggregates are degraded by autophagy. This study has enormous implications for understanding protein aggregates-associated diseases such as neurodegeneration and cancer. In this explicit study, they also showed that inhibiting autophagy and oxidative stress response system (NRF2) can lead to regression of tumors and thus, they described a new combinatorial mechanism for therapeutic targeting of cancer.

2. Citation: Understanding Mechanisms of Autophagy

Award: EMBO Global Investigator -2019

Statement of Research Achievements

This award was given to Dr. Chauhan for the overall scientific work performed in the last few years in biomedical sciences.

3. Citation: Understanding Mechanisms of Autophagy

Award: NASI-Scopus Young Scientist Award (Biomedical) -2022

Statement of Research Achievements

This award was given to Dr. Chauhan for the overall scientific work performed in the last few years in biomedical sciences.