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APPENDIX A

LIST OF PUBLICATIONS FROM THESIS WORK

- Prerna K.** & Dubey V. K. Computational screening approach for repurposing of FDA-approved drugs in search for Autophagy inhibitors in tumor cells. *J. Biomol. Struct. Dyn.* 1-12 (2021).
- Umesh#, **Prerna K.**# & Dubey V. K. Virtual screening and repurposing of FDA-approved drugs from ZINC database: an approach for identifying potential autophagy-inhibitors exploiting Autophagy Related 4A Cysteine Peptidase as a target. *J. Biomol. Struct. Dyn.* 1-17 (2021). (#Authors have equal contribution)
- Prerna K.** & Dubey V. K. Fresh Insights on Key Player Beclin1-Mediated Interplay Between Autophagy and Apoptosis in Health and Diseases. *Int. J. Biol. Macromol.* 204, 258–273 (2022).
- Prerna K.**, Singh R. K., Singh A. K., & Dubey V. K. *In vitro* investigations on Ponatinib as disrupter for Beclin-1 & Bcl-2 and its effect along with various regulators of autophagy and apoptosis. (Manuscript prepared for communication)

PUBLICATIONS IN COLLABORATION OUTSIDE THESIS WORK

- Prasad R., **Prerna K.**, Temgire M., Gorain M., Kundu G. C., Bellare J., Chandra P., and Dubey V. K. Structural Characteristics of Biomimetic Nanovesicles with Amphiphilic NIR Emissive J-Aggregates as Optocontrast for Tumor Imaging and Tissue Visualization. (Communicated)
- Kumar R.#, Srivastava V.R.#, Mahapatra S., Dkhar D. S., Kumari R., Darshna, **Prerna K.**, Dubey V. K., Chandra P. Drug Encapsulated Lipid-Polymeric Nanohybrid as a Chemotherapeutic Platform of Cancer. *Nanotheranostics* 7(2), 167-175 (2023). #Equal contribution.
- Kundu D., **Prerna K.**, Chaurasia R., Bharty M. K. & Dubey V. K. Advances in protein misfolding, amyloidosis and its correlation with human diseases. *3 Biotech.* 10, 1-22 (2020).
- Saha G., Chiranjivi A. K., Khamar B. M., **Prerna K.**, Kumar M. & Dubey V. K. BLIMP-1 mediated downregulation of TAK1 and p53 molecules is crucial in the pathogenesis of Kala-Azar. *Front. Cell. Infect. Microbiol.* 10 (2020).
- Saha G., Khamar B. M., **Prerna K.**, Kumar M. & Dubey V. K. BLIMP-1 plays important role in the regulation of macrophage pyroptosis for the growth and multiplication of *Leishmania donovani*. *ACS Infect. Dis.* 5, 12, 2087-2095 (2019).
- Kundu D., **Prerna K.**, & Dubey V. K. Nucleosides and Nitrogenous Bases Inhibit Protein Amyloidosis: A Biophysical and Computational Analysis Using Hen Egg White Lysozyme as Model System. (Communicated)

APPENDIX B

CONFERENCES & WORKSHOPS

- Awarded Best Poster Presentation in HEALTH-2021, a virtual international conference on “Cancer Biology: Advances & Challenges” for presenting the paper entitled, "Repurposing of FDA-Approved Drugs as Autophagy Inhibitors in Tumor Cells", organized from November 11-13th, 2021.
- Attended short term course (With Hands on Training) On “Advances in Medical Imaging”- Organised by DST Funded I-DAPT Hub Foundation at IIT (BHU), Varanasi set up under National Mission on Interdisciplinary Cyber Physical Systems, March 15-19, 2021
- Attended short term course (With Hands on Training) On “Computer Aided Drug Design and Protein Analysis”- Organised by DST Funded I-DAPT Hub Foundation at IIT (BHU), Varanasi set up under National Mission on Interdisciplinary Cyber Physical Systems, February 22-26, 2021
- Attended conference on “Recent Advancements in Biochemical Engineering and Biotechnology (RABEB-2019)”, held during March 15-16, 2019 at IIT-BHU, Varanasi, India.