

Suman Rimal

Basic Life Research Scientist, Pathology Operations supported expenses #2

Publications

PUBLICATIONS

- **The p53 target DRAM1 modulates calcium homeostasis and ER stress by promoting contact between lysosomes and the ER through STIM1.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Translation stalling induced mitochondrial entrapment of ribosomal quality control related proteins offers cancer cell vulnerability.** *Research square*
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- **Ribosome stalling during c-myc translation presents actionable cancer cell vulnerability.** *PNAS nexus*
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- **Stalled translation by mitochondrial stress upregulates a CNOT4-ZNF598 ribosomal quality control pathway important for tissue homeostasis.** *Nature communications*
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- **RACK1 and IRE1 participate in the translational quality control of amyloid precursor protein in Drosophila models of Alzheimer's disease.** *The Journal of biological chemistry*
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- **Reverse electron transfer is activated during aging and contributes to aging and age-related disease.** *EMBO reports*
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- **The mTORC2/AKT/VCP axis is associated with quality control of the stalled translation of poly(GR) dipeptide repeats in C9-ALS/FTD.** *The Journal of biological chemistry*
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- **Prevention of ribosome collision-induced neuromuscular degeneration by SARS CoV-2-encoded Nsp1.** *Proceedings of the National Academy of Sciences of the United States of America*
Wang, X., Rimal, S., Tantray, I., Geng, J., Bhurtel, S., Khaket, T. P., Li, W., Han, Z., Lu, B.
2022; 119 (42): e2202322119
- **Regulation of reverse electron transfer at mitochondrial complex I by unconventional Notch action in cancer stem cells.** *Developmental cell*
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- **Inefficient quality control of ribosome stalling during APP synthesis generates CAT-tailed species that precipitate hallmarks of Alzheimer's disease.** *Acta neuropathologica communications*
Rimal, S., Li, Y., Vartak, R., Geng, J., Tantray, I., Li, S., Huh, S., Vogel, H., Glabe, C., Grinberg, L. T., Spina, S., Seeley, W. W., Guo, et al
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- **Cucurbitacin B Activates Bitter-Sensing Gustatory Receptor Neurons via Gustatory Receptor 33a in *Drosophila melanogaster*.** *Molecules and cells*
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- **Molecular sensor of nicotine in taste of *Drosophila melanogaster*** *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*
Rimal, S., Lee, Y.
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