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Specialization: Proteostasis control in chronic metabolic diseases and aging

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Research

Proteostasis adaptation in response to stress or nutritional changes is essential to maintain cellular homeostasis. Alteration in the physiological process to maintain the dynamic proteostasis range is anchored around the endoplasmic reticulum which regulates several essential cellular processes like protein translation, folding, secretion, lipid biosynthesis, glucose metabolism, Ca^{2+} storage. The ER structure is dynamic and organized within interconnecting membranous flat sheets and tubules maintaining close proximity with other intracellular organelles like mitochondria/lysosomes. Failure to maintain physiological normalcy manifests in chronic metabolic diseases like MASLD and aging which are major world health issues. Our lab aims to understand how change in ER dynamics and organelle communication regulate metabolic and proteostasis adaptation in chronic metabolic diseases and aging.

Publication

<https://scholar.google.co.in/citations?user=1QOTsKgAAAAJ&hl=en>

Awards/Fellowships

- 2022 **Awarded Ramalingaswami Re-entry Fellowship (DBT)**
- 2018 **Conicyt Postdoctoral Fellowship**
- 2017 **BNI Postdoctoral Fellowship**
- 2017 **Awarded SERB N-PDF (Postdoctoral Fellowship)**
- 2016-2017 **Awarded CSIR-SRF (Senior Research Fellowship)**
- 2015-2016 **Senior Research Fellowship (DST)**
- 2013-2015 **Junior Research Fellowship (DST)**
- 2010 **Qualified CSIR-UGC NET (National Eligibility Test)**