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सीएसआईआर-कोशिकीय एवं आणविक जीवविज्ञान केन्द्र
CSIR-CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY
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Research in Maddika Subba Reddy's laboratory at CDFD is focused towards understanding the molecular networks of various cellular signaling pathways and their contribution to human diseases. Using cutting edge strategies, his group discovered previously unknown phosphatase-mediated signaling pathways that are crucial for the maintenance of cellular homeostasis. His most recent contributions to the field include deciphering (i) a novel role for EYA proteins in vertebrate organ development (Dev Cell, 2024), and (ii) a phosphomodification that impacts histone ubiquitination and transcription (EMBO J, 2022). To summarize, Maddika's work widened the scope of phosphatase biology by demonstrating several critical roles for these enzymes in various pathways such as mTOR signaling, Wnt pathways, chromatin dynamics, and vesicular trafficking (EMBO Reports, 2019; Cell Reports 2017; Nature communications, 2016; Nature Cell Biology, 2011, 2009; Cancer Research, 2013; Molecular and Cellular Biology, 2014; J Biol Chem 2013, 2017). More importantly, he identified phosphatases critical for tumorigenesis and these fundamental advances could lead to potential clinical applications.

For Maddika's outstanding contributions to the understanding of basic fundamental cellular pathways and their impact on human health, I wish to nominate him for the Sun Pharma Award in Basic Research category.

Manjula

Manjula Reddy

डॉ. मंजुला रेड्डी
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