



जीव विज्ञान संस्थान INSTITUTE OF LIFE SCIENCES

(An Autonomous Institute of the Department of Biotechnology, Govt. of India)

Citation on the Research

Pinkilata Pradhan is pursuing her Ph.D. under my guidance at the Institute of Life Sciences, India. Her research focuses on bacterial cell division and motility, particularly the role of *E. coli* Min systems role in regulating these processes. She discovered that deletion of the Min system leads to hypermotility and hyper-flagellation. Additionally, she identified crucial interactions between MinDE and the AtoSC two-component system in regulating motility and flagella biosynthesis. Her research addresses a fundamental question in bacteriology, showing that bacterial infections can be controlled by targeting the Min system, which plays a crucial role in both cell division and motility. This approach can aid in the development of new antibiotics to combat antibiotic resistance.

DR. TUSHAR K. BEURIA, Ph.D
SCIENTIST
INSTITUTE OF LIFE SCIENCES
BHUBANESWAR-751023, INDIA
Dr. Tushar Kant Beuria