

SUMO control of nervous system development

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Abstract

In the last decades, the post-translational modification system by covalent attachment of the SUMO polypeptide to proteins has emerged as an essential mechanism controlling virtually all the physiological processes in the eukaryotic cell. This includes vertebrate development. In the nervous system, SUMO plays crucial roles in synapse establishment and it has also been linked to a variety of neurodegenerative diseases. However, to date, the involvement of the modification of specific targets in key aspects of nervous system development, like patterning and differentiation, has remained largely elusive. A number of recent works confirm the participation of target-specific SUMO modification in critical aspects of nervous system development.

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Biography

Dr. Anup Kainthola has his expertise in the field of Medical Microbiology and Immunology. He worked on antibiotic resistance pattern of CA MRSA during his doctoral work and on radiation mediated damages to gastrointestinal tract and translocation of microbes thereafter at Defense Research

&Development Organization, India. Out of his passion for natural drugs and antibiotic resistance burden, he successfully demonstrated the activity of panchgavya against drug resistant bacteria. His aim now is to provide molecular grounds to support his theory so as to attract industry players to take panchgavya as final answer to antibiotic resistance.