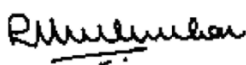


Citation on the Research Work: Prof. Sanjeev Galande

Prof. Sanjeev Galande is currently the Dean of the School of Natural Sciences, Shiv Nadar Institute of Eminence (SNIOE), Delhi-NCR. Dr Galande has made original contributions in the area of chromatin biology and epigenetics, in particular, the role of SATB family proteins in regulating the dynamics of chromatin organization in health and disease. Dr. Galande is an extremely accomplished biologist as exemplified by his high quality publications in journals of high repute. Dr Galande has made original contributions in the area of chromatin biology and epigenetics, in particular, the role of dynamic 3-dimensional chromatin organization and gene regulatory networks in health and disease. He has contributed significantly in building various programs and facilities both at IISER Pune and SNIOE and by virtue of these has contributed immensely to the scientific research and education ecosystem in India.

Early research from Prof. Galande's laboratory established SATB1 as a mediator of Wnt/ β -catenin signaling and provide mechanistic insights into how two factors with contrasting activities, namely CtBP1 and β -catenin, cooperate with the chromatin organizer SATB1 to regulate gene expression upon Wnt signaling. These findings have tremendous implications in development, differentiation and cancer. Findings from all of these studies have made significant impact on the chromatin biology-gene regulation community. Furthermore, his laboratory has provided unequivocal evidence to establish that SATB1, a novel target of Wnt signaling, reprograms the expression of tumor growth and metastasis associated genes to promote tumorigenesis and functionally overlaps with Wnt signaling during colorectal cancer progression. SATB1 is now considered as an important determinant of prognostic value in multiple cancers and Galande's work has provided the molecular basis for the same. The immediate outcome of these studies has tremendous potential towards designing effective therapeutics. Prof. Galande's integrative approach using transcriptome, genome-wide occupancy and chromatin accessibility analyses revealed molecular interplays by which gene regulatory networks are established and advocates the necessity to characterize the role of novel mechanisms by which dynamic chromatin architectural alterations orchestrate landmark developmental transitions in health and disease. Further, Prof. Galande has made salient contributions with translational significance in the area of public health, notably in diabetes – fetal programming of complex diseases, and in long COVID.



Nominator: Dr. Rita Mulherkar

Director
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