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विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन एक स्वायत्त संस्थान
सम विश्वविद्यालय संस्थान
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An autonomous institution under Department of Science and Technology, Govt. of India.
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To whom it may concern

Dr. Chandrima Das has emerged as a leading researcher spearheading a dynamic research group in the B&SG Division, SINP, Kolkata. Her contributions have shed light on the fundamental mechanisms underlying the epigenetic deregulation of genes in human diseases. Driven by her vision, her group has achieved remarkable milestones that have far-reaching implications in the field of Molecular and Cellular Biology.

One of the pivotal breakthroughs from her team's work is the elucidation of critical insights into the molecular mechanisms governing the transcriptional regulation of the glucose metabolic pathway by the 'chromatin readers'. This work has direct implication in metabolic disorder, type1/2-diabetes (FASEB J, 2021; Biochemistry, 2020; J Biol. Chem., 2017).

Another significant accomplishment by Dr. Das and her team is the discovery of a novel mechanism employed by the Hepatitis B virus (HBV) to evade the host immune response. Through their research, they have unravelled how the virus hijacks epigenetic regulators to repress the innate immune response and promote metabolic rewiring. This work not only enhances our understanding of viral infections but has also led to the identification of a promising target for anti-viral therapy (FEBS J., 2022; J Biol. Chem., 2017).

Furthermore, Dr. Das has made significant strides in unravelling the critical role of chromatin readers in regulating Epithelial-Mesenchymal Transition (EMT) (Biochem J., 2020; Nat Commun. 2019; Biochem J, 2017). Her investigations have illuminated how these proteins employ multiple mechanisms to modulate epigenetic programs. These findings hold immense potential in combating breast tumorigenesis, particularly in alleviating the challenges posed by therapy resistance (Cell Death Dis., 2020). Dr. Das's research has also uncovered novel targets for retinoid-based therapy, paving the way for innovative approaches in treating cancer (Cell Death Dis., 2022; Biochim Biophys Acta, 2017; J Biol. Chem., 2016).

Notably, Dr. Das has played a pivotal role in nurturing young talent, as evidenced by seven of her students completing their Ph.D. thesis research under her guidance. Several post-doctoral researchers mentored by her has also performed extremely well. She has been instrumental in organizing several National and International meetings in the field of chromatin and epigenetics. She is also actively involved in the Science Outreach programs. She greatly contributes as an active member of the Asian Forum of Chromosome and Chromatin Biology and the Asian Epigenomics initiative of six Asian countries in pursuit of advancing epigenetic research.

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Dr. Chandrima Das's outstanding research accomplishments, mentoring of young scholars, and active participation in scientific communities demonstrate her profound impact on the field of epigenetics. Her work continues to shape our understanding of complex diseases and provides promising avenues for the development of novel therapeutic strategies. I strongly recommend her "Sun Pharma Science Foundation Research Awards".

Thank you

Regards
Tapas

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