

Samer Hussein



Samer is an associate professor and researcher at Université Laval and its affiliated Cancer Research Center. Dr. Hussein completed his Ph.D. in Neurological Sciences at McGill University, Montréal, Canada, and his post-doctoral training at the University of Helsinki, Finland, and later at the Lunenfeld-Tanenbaum Research Institute in Toronto, Canada. He has published seminal work in the field of reprogramming demonstrating several key findings on how reprogramming to induced pluripotent stem cells (iPSCs) affects the chromatin state, genetic stability, and gene expression of cells undergoing this process of induced cell fate change. His team now focuses on understanding the molecular underpinnings governing cell fate decision during embryonic stem cell (ESC) differentiation and during the reprogramming process towards iPSCs. They use several bioinformatics and sequencing approaches, such as long read RNA sequencing, and ESC differentiation models, such as human cerebral organoids, to understand the molecular mechanisms and functional interactions of long non-coding RNAs during development and cancer.

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