

**Mickie Bhatia**

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Dr. Mickie Bhatia received his B.Sc. (Honors) in Molecular Biology at McMaster University, Hamilton; and his Ph.D. in Human Biology and Nutritional Sciences at the University of Guelph, Canada.

Dr. Bhatia is the Scientific Director of the Stem Cell and Cancer Research Institute (SCC-RI), appointed Chair in Stem Cell and Cancer Biology, and Professor in the Faculty of Health Sciences at McMaster. His work has been published in journals including *Nature*, *Nature Medicine*, *Nature Cell Biology*, *Nature Biotechnology*, *PNAS*, *Developmental Cell*, and *Immunity*.

Dr. Bhatia has been honored with; Canada Research Chair in Stem Cell Biology and Regenerative Medicine (Tier 2), Canada's Top 40 Under 40, Krembil Foundation Research Chair in Stem Cell Biology and Regenerative Medicine, Michael G. DeGroot Chair in Stem Cell and Cancer Biology, Canada Research Chair in Human Stem Cell Biology (Tier 1), University of Guelph 2008 Alumni Medal of Achievement, and Canadian Society for Biochemistry, Molecular and Cellular Biology (CSBMCB) Scientist Award.

Dr. Bhatia is a recognized leader in human stem cell research. Although stem cells can serve as sources for cellular and organ replacement in tissue damaged by trauma or genetic influences, and for disease intervention, Dr. Bhatia's studies also focus on human cancer and using human stem cells to understand how cancer begins, and how treatment may be revolutionized.

Dr. Bhatia serves as a scientific consultant to government and industry, and to medical companies interested in stem cell-based technologies, and sits on numerous editorial and scientific advisory boards.

*Keywords area of expertise:* human hematopoietic stem cells, pluripotent stem cells; stem cell fate decisions; Notch, Wnt, and Hedgehog signaling.

*Research Area:* Dr. Bhatia's research program sets out to understand the molecular mechanisms which orchestrate somatic and pluripotent (embryonic and reprogrammed) human stem cell development through; 1) Characterization of molecular pathways regulating human hematopoietic and embryonic stem cells, 2) Identification of target genes regulated by mesodermal factors, and 3) Creation of novel *in vivo* models for cellular/tissue regeneration through transplantation of human stem cells.

For further information about the Stem Cell and Cancer Research Institute (SCC-RI), please visit:

[www.fhs.mcmaster.ca/SCCRI](http://www.fhs.mcmaster.ca/SCCRI)