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Miguel Ramalho-Santos, PhD, MSc

New Website: mrsantoslab.org ^[1]

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About Miguel ^[2]

After 15 years at UCSF, our lab moved to the Lunenfeld-Tanenbaum Research Institute^[3] and the University of Toronto^[4], Canada, in the Summer of 2018. Miguel is Senior Investigator at the LTRI, Professor in the Department of Molecular Genetics^[5] at the University of Toronto, and Canada 150 Research Chair in Developmental Epigenetics^[6]. He will be leading an exciting new opportunity in this field in Toronto. We are looking for talented graduate students, postdocs and research associates. Miguel is also leading a search for a new Investigator/Assistant Professor in Developmental and Stem Cell Epigenetics^[7]. This website is not updated and is for informational purposes only. Please visit our new lab website at mrsantoslab.org^[8].

Pluripotency is the remarkable ability that certain stem cells have of giving rise to all cell types

of the body. The molecular regulation of pluripotency is a fundamental basic biology question with important potential implications in Regenerative Medicine, Reproductive Biology and Cancer. We are investigating how the **chromatin state** and the **transcriptional program** for pluripotency are maintained in pluripotent stem cells and how they can be revived during **reprogramming**, in both mouse and human cells. We study the **epigenetic regulation** of stem cell pluripotency in vivo using mouse models, focusing on **early embryonic development** and the **germline**. We use approaches from mouse genetics and embryology, stem cell biology, reprogramming, functional genomics, epigenetics and bioinformatics.



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Links

- [1] <https://www.mrsantoslab.org>
- [2] <https://santoslab.ucsf.edu/aboutmiguel>
- [3] <http://www.lunenfeld.ca/>
- [4] <https://www.utoronto.ca>
- [5] <http://www.moleculargenetics.utoronto.ca/>
- [6] <http://www.canada150.chairs-chaires.gc.ca/chairholders-titulaires/index-eng.aspx>
- [7] <https://apply.interfolio.com/53045>
- [8] <https://www.mrsantoslab.org/>