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Common stemness regulators of embryonic and cancer stem cells

Christiana Hadjimichael, Konstantina Chanoumidou, Natalia Papadopoulou, Panagiota Arampatzi, Joseph Papamatheakis, Androniki Kretsovali

Abstract

Pluripotency of 32 embryonic stem cells (ESC) and induced pluripotent stem cells (iPS) is regulated by a well characterized gene transcription circuitry. The circuitry is assembled by ESC specific transcription factors, signal transducing molecules and epigenetic regulators. Growing understanding of stem-like cells, albeit of more complex phenotypes, present in tumors (cancer stem cells, CSCs), provides a common conceptual and research framework for basic and applied stem cell biology. In this review, we highlight current results on biomarkers, gene signatures, signaling pathways and epigenetic regulators that are common in embryonic and cancer 2 stem cells. We discuss their role in determining the cell phenotype and finally, their potential use to design next generation biological and pharmaceutical approaches for regenerative medicine and cancer therapies.

Key words: Embryonic stem cells (ESCs); Cancer Stem cells (CSCs)

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