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Basic Study

Characterization and genetic manipulation of primed stem cells into a functional naïve state with ESRRB

Ricardo Antonio Rossello, Andreas Pfenning, Jason T Howard, Ute Hochgeschwender

Abstract

AIM: To identify differences between primed mouse embryonic stem cells (ESCs) and fully functional naïve ESCs; to manipulate primed cells into a naïve state.

METHODS: We have cultured 3 lines of cells (Table 1) from different mouse strains that have been shown to be naïve or primed as determined by generating germline-transmitting chimeras. Cells were put through a battery of tests to measure the different features. RNA from cells was analyzed using microarrays, to determine a priority list of the differentially expressed genes. These were later validated by qRT-PCR. Viral cassettes were created to induce expression of

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