Liver Disease Epigenetics

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Paper. Separate [2]: OCT4A-differentiated undifferentiated cells with Penstemon-associated family of transcription factors [3]

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Title: In vitro Human ESC expression and differentiation between OCT4A-differentiated undifferentiated cells with Penstemon-associated family of transcription factors, in an animal model of certain debilitating and life-threatening hepatic disorders. PLoS ONE 9 (1): e1004801. doi:10.1371/journal.pone.00100480.

[This paper is a collaborative effort with some other researchers at Esker Sinai Medical Center.].

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[Based on background information provided by the authors. The authors acknowledge the support of the Boston branch of the Johns Hopkins Institute for Basic Medical Research; the Holland Point-based European Culture and Family Physiopathology Group of the American Society for Hematology and other researchers including working relationships with Mark and Gillian Eskridge, IIA.; Tom Davis and Brian Holm and Kerstin Jenne, and colleagues at the Esker Sinai Center. The authors acknowledge the funding support of the American Foundation for Rare Disorders (AEFND) and the Nemours Foundation. The genetic and cellular explanations for liver diseases are complex, and a project such as this is an exciting area of endeavor. For this study, the researchers sought an objective characterization of the human ESC based on 2 independent investigator studies and a quantitative review of the literature. The primary purpose of the intervention groups in this study was to determine whether OCT4A could be turned into cyclotronium A3 and into a separate gene that incorporates magnetoelastin (MEC) and how affected human ESC expression and differentiation would be.

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