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(71) Applicant *(for all designated States except US)*: **WISCONSIN ALUMNI RESEARCH FOUNDATION** [US/US]; 614 Walnut Street, P.O. Box 7365, Madison, WI 53707-7365 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **THOMSON, James, A.** [US/US]; 1807 Regent Street, Madison, WI 53705 (US). **LUDWING, Tenneille** [US/US]; 614 West Olin Avenue, Madison, WI 53715 (US).

(74) Agent: **SEAY, Nicholas, J.**; Quarles & Brady LLP, P.O. Box 2113, Madison, WI 53701-2113 (US).

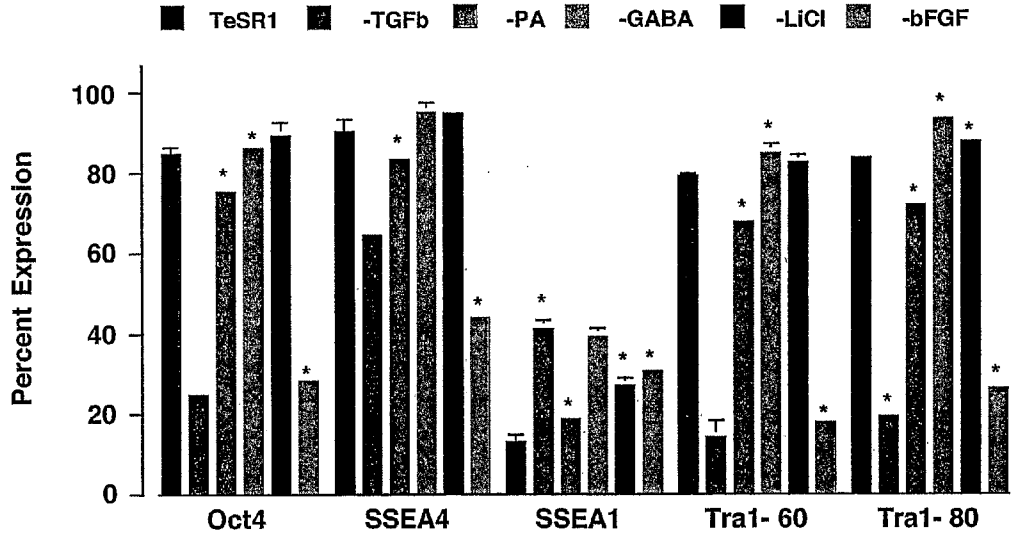
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(54) **Title:** MEDIUM AND CULTURE OF EMBRYONIC STEM CELLS



(57) **Abstract:** Previous methods for culturing human embryonic stem cells have required either fibroblast feeder cells or a medium which has been exposed to fibroblast feeder cells in order to maintain the stem cells in an undifferentiated state. It has now been found that if high levels of fibroblast growth factor, gamma amino butyric acid, pipecholic acid, lithium and transforming growth factor beta are added to the medium in which the stem cells are cultured, the stem cells will remain undifferentiated indefinitely through multiple passages, even without feeder cells or conditioned medium.

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