



# **Embryonic Stem Cells as a Developmental Model in vitro (Cells Tissues Organs, Volume 165, Number 3-4, 1999)**

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Special Topic Issue: Cells Tissues Organs 1999, Vol. 165, No. 3-4 Pluripotent mouse embryonic stem (ES) cells have been widely used to create mutant mice that pass genetic modifications to their offspring through germ-line transmission. ES cells also have the capacity to differentiate in vitro into cells of endo- dermal, ectodermal and mesodermal lineages. This special issue of Cells Tissues Organs contains articles covering the properties and potential of pluripotent ES cells in culture. Molecular mechanisms regulating self-renewal and differentiation of ES cells and the expression pattern of Oct-4, a key regulator of totipotency during the mammalian life cycle, are described. Several articles review the present knowledge of ES cell-derived neuro- genic, adipogenic, myogenic, cardiovascular and hematopoietic differentiation. The developmental capacity of ES cells as the basis for an in vitro embryotoxicity screening system is presented, and one chapter describes attempts to establish pluripotent cell lines from other species, including the most recent strategies to introduce genetic modifications into livestock animals by nuclear transfer. A promising area of research has been the isolation of pluripotent stem cells of human origin and their prospective use in tissue transplantations - a topic addressed in the final chapter.

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