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| Titolo | Embryonic stem cells [[electronic resource] ] : a practical approach / / edited by Elena Notarianni, Martin J. Evans |
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| Descrizione fisica | 1 online resource (361 p.) |
| Collana | Practical approach series |
| Altri autori (Persone) | NotarianniElena<br>EvansMartin J., Prof |
| Disciplina | 612.6/4 |
| Soggetti | Embryonic stem cells |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Procedures for deriving ES cell lines from the mouse / Frances A. Brook -- Production of ES cell-derived mice / Yoko Kato and Yukio Tsunoda -- Generating animal models of human mitochondrial genetic disease using mouse ES cells / Grant R. MacGregor ... [et al.] -- Controlling the differentiation of mouse ES cells in vitro / Michael V. Wiles and Gabriele Proetzel -- In vitro differentiation of mouse ES cells into muscle cells / Yelena S. Tarasova [et al.] -- In vitro differentiation of mouse ES cells into haematopoietic cells / Osamu Ohneda and Masayuki Yamamoto -- Lineage selection and transplantation of mouse ES cell-derived neural precursors / Tanja Schmandt, Tamara Glaser and Oliver Brustle -- In vitro differentiation of mouse ES cells into pancreatic and hepatic cells / Przemyslaw Blyszczuk, Gabriela Kania and Anna M. Wobus -- Isolation and characterization of human ES cells / Martin F. Pera -- Differentiation of human ES cells / Sharon Gerecht-Nir and Joseph Itskovitz-Eldor -- ES cell lines from the cynomolgus monkey (Macaca fascicularis) / Hirofumi Suemori [et al.]. |
| Sommario/riassunto | The groundbreaking isolation of embryonic stem cells (or 'ES cells') of the mouse in the early 1980's triggered a sustained expansion of global |

research into their exploitation. This led to the routine genetic engineering of the mouse and revolutionised our understanding of biological processes in the context of the whole animal. ES cell biology remains a crucial and growing area of research with far-reaching implications for developmental and comparative biology as well as for human health. This book serves as a primer to ES cells, their derivation and experimental manipulation. It contains a...