

1. Record Nr.	UNINA9910298293603321
Autore	Healy Lyn
Titolo	Atlas of human pluripotent stem cells in culture // by Lyn Healy, Ludmila Ruban
Pubbl/distr/stampa	New York, NY : , : Springer US : , : Imprint : Springer, , 2015
ISBN	1-4899-7507-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (216 p.)
Disciplina	570 571.6 571.638 660.63
Soggetti	Stem cells Cell culture Biochemical engineering Cytology Stem Cells Cell Culture Biochemical Engineering Cell Biology
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	1 Before We Begin: An Introduction to the Culture of Pluripotent Cells -- 2 Mouse and Human Fibroblasts -- 3 Inactivated Mouse and Human Fibroblasts -- 4 Human Embryonic Stem Cells -- 5 Human Induced Pluripotent Stem Cells on Feeders -- 6 Pluripotent Cell Lines Grown on Different Substrates and Surfaces -- 7 Passaging Pluripotent Stem Cells -- 8 Characteristic Staining Patterns of Undifferentiated and Differentiated Pluripotent Stem Cells -- 9 Derivation of Induced Pluripotent Stem Cells -- 10 Culture Adaptation and Abnormal Cultures -- 11 Infection -- 12 Miscellaneous Cell Types and Cell Lines of Interest.
Sommario/riassunto	This lavishly-illustrated, authoritative atlas explores the intricate art of culturing human pluripotent stem cells. Twelve chapters – containing

more than 280 color illustrations – cover a variety of topics in pluripotent stem cell culturing including mouse and human fibroblasts, human embryonic stem cells and induced pluripotent stem cells, characteristic staining patterns, and abnormal cultures, among others. Atlas of Human Pluripotent Stem Cells in Culture is a comprehensive collection of illustrated techniques complemented by informative and educational captions examining what good quality cells look like and how they behave in various environments. Examples of perfect cultures are compared side-by-side to less-than-perfect and unacceptable examples of human embryonic and induced pluripotent stem cell colonies. This detailed and thorough atlas is an invaluable resource for researchers, teachers, and students who are interested in or working with stem cell culturing. .

---