

1. Record Nr.	UNINA9910298409303321
Titolo	Cell Culture Technology / / edited by Cornelia Kasper, Verena Charwat, Antonina Lavrentieva
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-74854-8
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XII, 168 p. 64 illus., 60 illus. in color.)
Collana	Learning Materials in Biosciences, , 2509-6125
Disciplina	571.638
Soggetti	Biomedical engineering Cell culture Science - Study and teaching Regenerative medicine Tissue engineering Biomedical Engineering/Biotechnology Cell Culture Science Education Regenerative Medicine/Tissue Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	History of cell culture - beyond animal cell lines -- Essentials in Cell Culture -- Cell Culture Media -- Primary cell culture -- 2 D vs 3 D cell culture -- Biomaterials -- Cell surface interaction -- Mimicking physiology in cell cultures -- Co-cultures -- Bioreactors and Automation.
Sommario/riassunto	This textbook provides an overview on current cell culture techniques, conditions, and applications specifically focusing on human cell culture. This book is based on lectures, seminars and practical courses in stem cells, tissue engineering, regenerative medicine and 3D cell culture held at the University of Natural Resources and Life Sciences Vienna BOKU and the Gottfried Wilhelm Leibniz University Hannover, complemented by contributions from international experts, and therefore delivers in a compact and clear way important theoretical, as well as practical knowledge to advanced graduate students on cell culture techniques

and the current status of research. The book is written for Master students and PhD candidates in biotechnology, tissue engineering and biomedicine working with mammalian, and specifically human cells. It will be of interest to doctoral colleges, Master- and PhD programs teaching courses in this area of research.
