1. Record Nr.   UNICAMPANIASUN0115372

   Titolo   Statistical analysis for high-dimensional data : the Abel symposium
                   2014 / Arnoldo Frigessi ... [et al.] editors

   Pubbl/distr/stampa   XII, 306 p., : ill. ; 24 cm

   Edizione   [Cham : Springer, 2016]

   Descrizione fisica   Pubblicazione in formato elettronico

   Soggetti   62P10 - Applications of statistics to biology and medical sciences;
                   meta analysis [MSC 2020]
                   62Hxx - Multivariate analysis [MSC 2020]
                   62Jxx - Linear inference, regression [MSC 2020]
                   62H30 - Classification and discrimination; cluster analysis (statistical
                   aspects) [MSC 2020]
                   62F12 - Asymptotic properties of parametric estimators [MSC 2020]
                   62Fxx - Parametric inference [MSC 2020]

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

2.	Record Nr.	UNINA9910437614103321
	Titolo	Site-directed insertion of transgenes / / Sylvaine Renault, Philippe Duchateau [eitors]
	Pubbl/distr/stampa	Dodrecht ; ; New York, : Springer, 2012, c2013
	ISBN	94-007-4531-1
	Edizione	[1st ed. 2013.]
	Descrizione fisica	1 online resource (392 p.)
	Collana	Topics in current genetics, , 1610-0970 ; ; v.23
	Altri autori (Persone)	RenaultSylvaine DuchateauPhilippe
	Disciplina	616.02774
	Soggetti	Transgenic animals Gene targeting
	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	Preface -- Section 1: Site–directed integration of transgenes -- 1 Transgene site-specific integration : troubles and solutions -- 2 : Designing non-viral targetd integrating vectors for genome enginnering in vertebrates -- 3: Gene targeting and homologous recombination in Saccharomyces cerevisiae4: Eucaryotic homologous recombination in mammalian cells -- 5 Engineered Zinc Finger Nucleases for Targeted Genome Editing -- 6: Engineered meganucleases for genome engineering purposes -- Section3: Integration based on Site-specific recombination -- 7 : Cre/loxP, Flp/FRT systems and pluripotent stem cell lines -- 8 : Site-specific recombination using C31 Integrase -- 9 : Modified transposases used for site-directed insertion of transgenes -- 10 : Targeted Plasmid Integration into the Human Genome by Engineered Recombinases -- 11: Gene site-specific insertion in plants -- 12 Site-directed insertion of transgenes in Drosophila -- 13. Nuclease Mediated Targeted Genome Modification in Mammalian Cells -- 14: Bio-applications derived from site-directed genome modification technologies.
	Sommario/riassunto	The post-genomic era has brought new challenges and opportunities in all fields of the biology. In this context, several genome engineering technologies have emerged that will help deciphering genes function by as well as improve gene therapy strategies. Genomic modifications such as knock-in, knock-out, knock-down, sequence replacement or

modification can today be routinely performed. However, in front of this large palette of methodologies scientists may experience difficulties to gather useful information's scattered within the literature. This book aims to present the state of this field from basic mechanisms of site-directed modifications to their applications in a wide range of organisms such as bacteria, yeast, plants, insects, mammals. It will discuss the problems encountered when using the random integration strategy and present the recent advances made in targeted genome modification. Technologies based on Zinc Finger nucleases, Meganucleases, TALEN, CRE and FLP recombinase, C31 integrase, transposases and resolvases are fully detailed with their strengths and weaknesses. All these information's will help students and experienced researchers to understand and choose the best technology for their own purposes.