1. Record Nr. UNINA9910231247003321

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Titolo	Genome Editing in Neurosciences [[electronic resource] /] / edited by Rudolf Jaenisch, Feng Zhang, Fred Gage
Pubbl/distr/stampa	Springer Nature, 2017 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-60192-X
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XI, 123 p. 16 illus. in color.)
Collana	Research and Perspectives in Neurosciences, , 0945-6082
Disciplina	611.01816 599.935
Soggetti	Human genetics Neurosciences Biomedical engineering Human Genetics Biomedical Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- In vitro modeling of complex neurological diseases -- Aquatic model organisms in neurosciences : the genome editing revolution -- Genome-wide genetic screening in the mammalian CNS -- CRISPR/Cas9-mediated Knockin and Knockout in Zebrafish -- Dissecting the role of synaptic proteins with CRISPR -- Recurrently Breaking Genes in Neural Progenitors: Potential Roles of DNA Breaks in Neuronal Function, Degeneration and Cancer -- Neuroscience research using non-human primate models and genome editing -- Multiscale genome engineering: Genome-wide screens and targeted approaches -- Using Genome Engineering to Understand Huntington’s Disease -- Therapeutic gene editing in muscles and muscle stem cells.
Sommario/riassunto	This book is open access under a CC BY 4.0 license. Innovations in molecular biology are allowing neuroscientists to study the brain with unprecedented resolution, from the level of single molecules to integrated gene circuits. Chief among these innovations is the CRISPR-Cas genome editing technology, which has the precision and scalability

	to tackle the complexity of the brain. This Colloque Médecine et Recherche has brought together experts from around the world that are applying genome editing to address important challenges in neuroscience, including basic biology in model organisms that has the power to reveal systems-level insight into how the nervous system develops and functions as well as research focused on understanding and treating human neurological disorders.

2.

Record Nr.	UNICASVIA0032619
Titolo	4 : Dughet-Gillet / E. Benezit
Pubbl/distr/stampa	Paris, : Grund, 1976
ISBN	2700001524
Descrizione fisica	728 p. ; 25 cm.
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia