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Autore	Price David
Titolo	Building Brains [[electronic resource] ] : An Introduction to Neural Development
Pubbl/distr/stampa	Hoboken, : Wiley, 2011
ISBN	0-470-97988-7 1-119-95766-4
Descrizione fisica	1 online resource (350 p.)
Altri autori (Persone)	JarmanAndrew P MasonJohn O KindPeter C
Disciplina	612.8
Soggetti	Developmental neurobiology Nervous system --Growth Developmental neurobiology - Growth Nervous system Neurons - physiology Nervous System - anatomy & histology Neurogenesis Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Building Brains: An Introduction to Neural Development; Contents; Preface; Conventions and Commonly used Abbreviations; 1 Models and Methods for Studying Neural Development; 1.1 What is neural development?; 1.2 Why research neural development?; 1.2.1 The uncertainty of current understanding; 1.2.2 Implications for human health; 1.2.3 Implications for future technologies; 1.3 Major breakthroughs that have contributed to understanding developmental mechanisms; 1.4 Invertebrate model organisms; 1.4.1 Fly; 1.4.2 Worm; 1.4.3 Other invertebrates; 1.5 Vertebrate model organisms; 1.5.1 Frog; 1.5.2 Chick; 1.5.3 Zebrafish; 1.5.4 Mouse; 1.5.5 Humans; 1.5.6 Other vertebrates; 1.6 Observation and experiment: methods for studying neural development; 1.7 Summary; 2 The Anatomy of Developing

Nervous Systems; 2.1 The nervous system develops from the embryonic neuroectoderm; 2.2 Anatomical terms used to describe locations in embryos; 2.3 Development of the neuroectoderm of invertebrates; 2.3.1 *C. elegans*; 2.3.2 *Drosophila*; 2.4 Development of the neuroectoderm of vertebrates and the process of neurulation; 2.4.1 Frog; 2.4.2 Chick; 2.4.3 Mouse; 2.5 Secondary neurulation in vertebrates  
2.6 Formation of invertebrate and vertebrate peripheral nervous systems  
2.6.1 Invertebrates; 2.6.2 Vertebrates: the neural crest and the placodes; 2.6.3 Vertebrates: development of sense organs; 2.7 Summary; 3 Neural Induction: An Example of How Intercellular Signalling Determines Cell Fates; 3.1 What is neural induction?; 3.2 Specification and commitment; 3.3 The discovery of neural induction; 3.4 A more recent breakthrough: identifying molecules that mediate neural induction; 3.5 Conservation of neural induction mechanisms in *Drosophila*  
3.6 Beyond the default model - other signalling pathways involved in neural induction  
3.7 Signal transduction: how cells respond to intercellular signals; 3.8 Intercellular signalling regulates gene expression; 3.8.1 General mechanisms of transcriptional regulation; 3.8.2 Transcription factors involved in neural induction; 3.8.3 What genes do transcription factors control?; 3.8.4 Gene function can also be controlled by other mechanisms; 3.9 The essence of development: a complex interplay of intercellular and intracellular signalling; 3.10 Summary; 4 Patterning the Neuroectoderm  
4.1 Regional patterning of the nervous system  
4.1.1 Patterns of gene expression are set up by morphogens; 4.1.2 Patterning occurs within a monolayer epithelium; 4.1.3 Patterning happens progressively; 4.2 Patterning the anteroposterior (AP) axis of the *Drosophila* CNS; 4.2.1 Creating domains of transcription factor expression; 4.2.2 Dividing the ectoderm into segmental units; 4.2.3 Assigning segmental identity - the Hox code; 4.3 Patterning the AP axis of the vertebrate CNS; 4.3.1 Hox genes are highly conserved; 4.3.2 Initial AP information is imparted by the mesoderm  
4.3.3 Mesoderm signals set up domains of transcription factor expression

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## Sommario/riassunto

The development of a brain from its simple beginnings in the embryo to the extraordinarily complex fully-functional adult structure is a truly remarkable process. Understanding how it occurs remains a formidable challenge despite enormous advances over the last century and current intense world-wide scientific research. A greater knowledge of how nervous systems construct themselves will bring huge benefits for human health and future technologies. Unravelling the mechanisms that lead to the development of healthy brains should help scientists tackle currently incurable diseases of the nervous

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2. Record Nr.	UNISA996392413403316
Autore	Fitz-Geffry Charles <1575?-1638.>
Titolo	Gods blessing upon the providers of corne [[electronic resource] ] : and Gods curse upon the hoarders. Read, judge, and consider, Gods judgements by the Sword. Plague. Famine. Together with the corn imported into London Port in four monthes. // By C. F-G
Pubbl/distr/stampa	London, : Printed for M.S., 1648
Descrizione fisica	[4], 56 p
Soggetti	Corn industry - Corrupt practices - Great Britain - 17th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	C.F-G = Charles Fitz-Geffry. Originally published in 1631 as: The curse of corne-hoarders. New title page and "Corn entred at the custome-house in London" (August-November 1647) added. Annotation on Thomason copy: "Decemb: 14th"; the imprint date has been corrected in manuscript to "1647". Reproduction of the original in the British Library.
Sommario/riassunto	eebo-0018