

1. Record Nr.	UNINA9910149597703321
Autore	Zhou Jiang-Ning
Titolo	The Tree Shrew (<i>Tupaia belangeri chinensis</i>) Brain in Stereotaxic Coordinates // by Jiang-Ning Zhou, Rong-Jun Ni
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2016
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XIII, 588 p. 557 illus., 280 illus. in color.)
Disciplina	612.8
Soggetti	Neurosciences Anatomy Neurobiology Nervous system - Radiography Animal Anatomy / Morphology / Histology Neuroradiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Acknowledgements -- Author Information -- Background and Methods -- Coronal sections of the tree shrew brain -- Horizontal sections of the tree shrew brain -- Sagittal sections of the tree shrew brain.
Sommario/riassunto	This atlas is currently the most systematic and comprehensive atlas of the tree shrew brain. The purpose of this book is to help scientists acquire accurate coordinates of the brain regions of the tree shrew, which is becoming a popular animal model for a variety of human diseases. This atlas contains series of 192 coronal sections, 36 sagittal sections, and 49 horizontal sections using Nissl staining or acetylcholinesterase histochemistry as well as a series of diagrams in stereotaxic coordinates. Original photomicrographs are obtained at single-cell resolution. In addition, we also referred to magnetic resonance images acquired at 250 um intervals with a magnetic resonance scanner 9.4T. Many brain structures are first identified in tree shrews and accurately presented in a stereotaxic coordinate system. The Bregma coordinates system is used for the first time in this tree shrew brain atlas. The atlas represents the collaboration between

two indispensable skills of brain research, neuroanatomy and stereotaxic surgery. It will be extensively used in neuroscience research, particularly tree shrew brain study, and will help graduate students and researchers understand brain anatomy and acquire accurate reference coordinates.
