

1. Record Nr.	UNINA9910300208403321
Titolo	7.0 Tesla MRI Brain Atlas [[electronic resource]] : In-vivo Atlas with Cryomacrotome Correlation // edited by Zang-Hee Cho
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-642-54398-7
Edizione	[2nd ed. 2015.]
Descrizione fisica	1 online resource (569 p.)
Disciplina	616.8047548
Soggetti	Neuroradiology Neurosciences Radiology Neurosurgery Imaging / Radiology
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	Foreword -- Preface -- Preface of the 2nd Edition -- Introduction -- 1. Reference of Brain Image Setting -- 2. Orientation of Brain Images -- I. Orientation of the image sections and planes -- II. Standard of the sectional brain image planes and sizes -- III. Adjustment of MRI brain to the reference brain -- IV. Terminology & Labeling -- V. Data collection system for clinicopathologic brain mapping -- VI. Figures (Figs. 1, 2, 3) -- 3. Sources of Brain Images -- I. In vivo Images using 7.0T MRI -- II. Cadaver Images by Cryomacrotome -- III. Image reconstruction and volume rendering -- 4. 3D Images by Volume Rendering -- I. Coronal, Sagittal and Axial Cuts- Cadaver (Fig. 4) -- II. Coronal, Sagittal and Axial Cuts- MRI (Fig. 5) -- III. Sulcus and Gyrus- MRI (Fig. 6) -- IV. Brodmann areas-MRI (Fig. 7) -- Acknowledgements -- Chapter I. Coronal Images of Cadaver & Human Brain of 7.0T MRI In Vivo -- Chapter II. Sagittal Images of Cadaver & Human Brain of 7.0T MRI In Vivo -- Chapter III. Axial Images of Cadaver & Human Brain of 7.0T MRI In Vivo -- References -- Abbreviations -- Index.
Sommario/riassunto	The inaugural publication of the 7.0 Tesla MRI Brain Atlas: In-vivo Atlas with Cryomacrotome Correlation in 2010 provided readers with a

spectacular source of ultra-high resolution images revealing a wealth of details of the brainstem and midbrain structures. This second edition contributes additional knowledge gained as a result of technologic advances and recent research. To facilitate identification and comparison of brain structures and anatomy, a detailed coordination matrix is featured in each image. Updated axial, sagittal, and coronal images are also included. This state-of-the-art and user-friendly reference will provide researchers and clinicians with important new perspectives.
