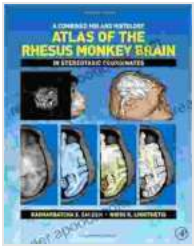
Unveiling the Secrets of the Rhesus Monkey Brain: A Comprehensive MRI and Histology Atlas

The rhesus monkey (*Macaca mulatta*) is a widely used animal model in neuroscience research, owing to its close evolutionary relationship to humans and its well-characterized neuroanatomy. The Combined MRI and Histology Atlas of the Rhesus Monkey Brain in Stereotaxic Coordinates provides an unprecedented level of detail and precision in mapping the structure and connectivity of this important animal model.



A Combined MRI and Histology Atlas of the Rhesus Monkey Brain in Stereotaxic Coordinates

by Kadharbatcha S. Saleem

★★★★★ 5 out of 5

Language	: English
File size	: 11761 KB
Text-to-Speech	: Enabled
Print length	: 336 pages

This comprehensive atlas combines high-resolution magnetic resonance imaging (MRI) and histology data, allowing researchers to visualize and analyze the brain in three dimensions. The MRI scans provide detailed anatomical information, while the histology data offers cellular-level resolution, enabling a comprehensive understanding of brain structure and function.

Key Features

- **Unprecedented Detail:** High-resolution MRI and histology data provide unparalleled detail and precision in mapping the rhesus monkey brain.
- **Stereotaxic Coordinates:** All structures are accurately registered to stereotaxic coordinates, allowing for precise targeting and comparisons with other studies.
- **Comprehensive Coverage:** The atlas covers the entire rhesus monkey brain, from the brainstem to the cerebral cortex.
- **Interactive Platform:** The atlas is available online as an interactive platform, enabling researchers to explore the data and visualize structures in three dimensions.

Applications

The Combined MRI and Histology Atlas of the Rhesus Monkey Brain in Stereotaxic Coordinates has a wide range of applications in neuroscience research, including:

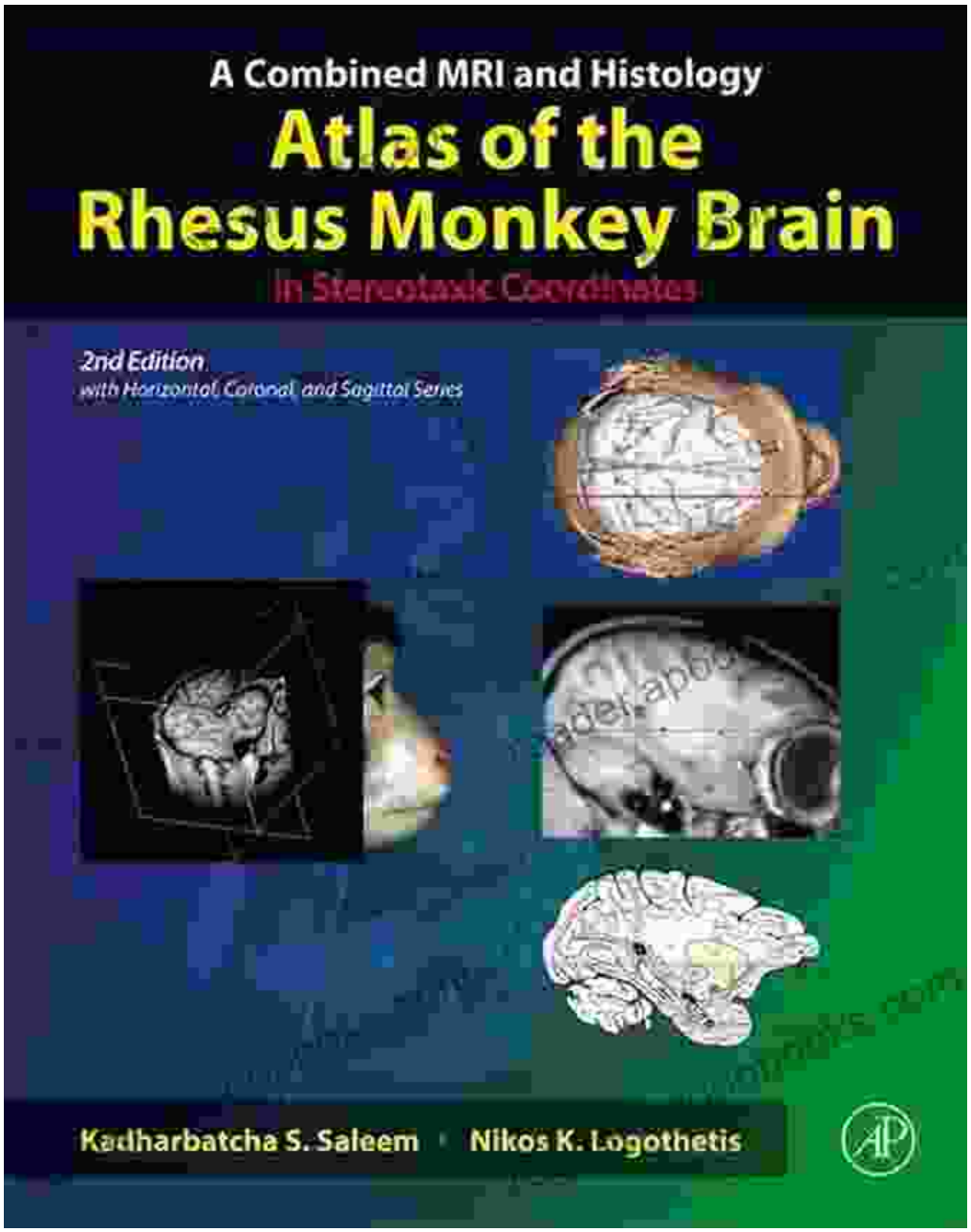
- **Brain Mapping and Connectivity:** Study the connections and pathways within the rhesus monkey brain.
- **Neuroimaging and Data Analysis:** Register neuroimaging data to stereotaxic coordinates and analyze brain activity in relation to specific brain regions.
- **Neurosurgical Planning:** Utilize the atlas for precise targeting during neurosurgical procedures.

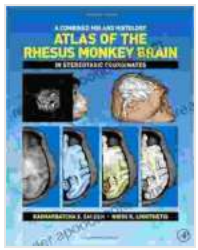
- **Educational Resource:** Teach neuroanatomy and brain mapping techniques to students and researchers.

Availability

The Combined MRI and Histology Atlas of the Rhesus Monkey Brain in Stereotaxic Coordinates is available online at [insert website address]. The atlas is freely available for non-commercial research use.

The Combined MRI and Histology Atlas of the Rhesus Monkey Brain in Stereotaxic Coordinates is an invaluable resource for neuroscientists, neurologists, and researchers studying the primate brain. Its comprehensive coverage, unparalleled detail, and interactive platform make it an indispensable tool for understanding the structure and function of the rhesus monkey brain.





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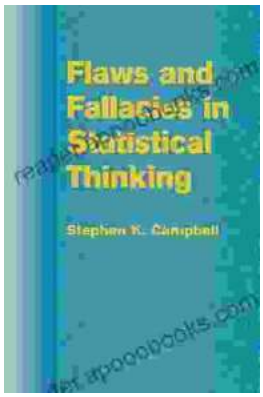

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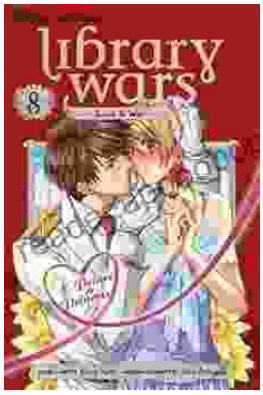

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