



Cytoarchitectonic Atlas of the Human Cerebral Cortex: In MNI Stereotaxic Space

Michael Petrides

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This cytoarchitectonic atlas of the human cerebral cortex depicts the cellular structure of the human cortex, detailing the arrangement of neuronal cell bodies as well as the relationships between cytoarchitectonic boundaries and anatomical landmarks. Presentation in MNI Stereotaxic Space will enable the atlas to serve as a useful working tool for structural/functional neuroimagers attempting to identify the cytoarchitectonic area within which a functional activation or a structural change has occurred. An introductory section discusses the history and current state of cytoarchitectonic studies, and a separate chapter on methods is also provided. Mapping of the frontal lobe, parietal lobe, insula, temporal lobe, occipital lobe and white matter fasciculi follows.

- Architectonic areas presented on average MNI brain (rather than a single brain), so individual peculiarities of the surface morphology of any given brain are regularized, thus helping the reader to see the essence of the location of an area.
- Features full-page high quality photomicrographs for each cytoarchitectonic area of the cortex, with supplementary zoom images of particular details.
- Offers commentary on the relation of sulci and gyri to architectonic areas, which will be useful to those looking to identify the cortical area within which functional or structural changes happened
- Contains section discussing white matter fasciculi that permit connectivity between the cytoarchitectonic areas
- Commentary pages on relationship to nonhuman primate cortex (macaque monkey) enables links to be made to the primate species in which most of the experimental anatomical and physiological information has been and continues to be gathered.

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