

# Primate Brain Maps: Structure of the Macaque Brain: A Laboratory Guide with Original Brain Sections, Printed Atlas and Electronic Templates for Data and Schematics (including CD-ROM).

J. Wu, M.F. Dubach, J.E. Robertson



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*Primate Brain Maps* is a major new publication for the neurosciences. Published as a hard-cover book with accompanying CD-ROM, it will not only be an invaluable tool and reference work for everyone working in primate brain research, but also a unique source of information for all those in the fields of neuroanatomy and neuroinformatics. Features include:

#### Book

- A history of primate brain atlases from Serres (1824) to Paxinos *et al.* (1999), and a thorough survey of the 30 most comprehensive primate brain atlases of the twentieth century, from tree shrew to chimpanzee.
- Methods and nomenclature (NeuroNames<sup>TM</sup>) used in the preparation of *Primate Brain Maps*.
- 58 labelled coronal sections at 1mm intervals from the brain of *Macaca fascicularis*, with photomicrographs of their associated Nissl-stains.
- 4 labelled maps of the cortical surface.
- Quantitative comparison of the size and variation of subcortical structures of the macaques and other primate species as represented in published stereotaxic atlases, and applicability of *Primate Brain Maps* to different macaques and other primate species.
- How to use the atlas templates provided on the CD-ROM for mapping data.
- Structure and abbreviation indices.

#### **CD-ROM**

- The 58 coronal sections available as unlabelled template files in eps format (two sets landmark and boundary), for downloading and use in mapping primate neuroanatomical data.
- The four cortical surface maps, and views of the major sulci opened, available as template files in eps format for download and mapping onto.
- NeuroNames<sup>TM</sup> a fully searchable database of over 7000 synonyms for over 1400 neuroanatomical structures found in humans, other primates and rats, and a hierarchy of some 350 volumetric structures designed to be used as a skeleton for digital data management in spreadsheets or 2- and 3-D spatial environments all linked to a fully labelled version of the atlas.
- A unique library of over 500 Nissl, myelin, frozen coronal and MRI images of the macaque brain all linked to their nearest appropriate labelled atlas map.

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