



Chemoarchitectonic Atlas of the Rat Brain, Second Edition

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Chemoarchitectonic Atlas of the Rat Brain, Second Edition From Academic Press

Now in its 6th edition, the Paxinos and Watson The Rat Brain in Stereotaxic Coordinates has been the most used reference of neuroscientists for the past twentyfive years. Both the illustrations and nomenclature of the atlas have become standard tools used by almost all research neuroscientists who deal with anatomy, physiology, or function.

In 1999, the same authors published volumes Chemoarchitectonic Atlas of the Rat Forebrain and Chemoarchitectonic Atlas of the Rat Brainstem. These publications have been recognized as providing an archive of chemical markers in the rat brain guiding researchers in the identification of structures in their own preparations in many areas of research. They provided primary data which researchers could apply to their own studies. These books were based on the 4th edition of the Rat Brain in Stereotaxic Coordinates, and are now out of print. This second edition of the material in these books will combine the two volumes of the first edition into a single volume.

The photographs are presented one to a page in the forebrain and midbrain areas, two to a page in the hindbrain. Different chemoarchitectonic stains are displayed with labels identifying the structures of the brain, following the delineations and nomenclature of the Rat Brain in Stereotaxic Coordinates, Sixth Edition.

- * New edition of the chemoarchitectonic atlas to accompany the gold standard reference on the neuroanatomy of the nervous system of the most important model animal in Neuroscience and experimental psychology
- * Chemoarchitectonic atlases have been providing an archive of chemical markers in the rat brain used in many areas of research. They provided primary data which helps researchers identify structures in their own preparations from neuroanatomical, physiological, neuropharmacological, and gene expression studies.
- * Combines the two books from the first edition on the rat forebrain and the rat brainstem into one
- * Thoroughly revised identification of structures following the new data from The Rat Brain in Stereotaxic Coordinates 6th edition and the Chick Brain in Stereotaxic Coordinates

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Editorial Review

About the Author

Professor George Paxinos, AO (BA, MA, PhD, DSc) completed his BA at The University of California at Berkeley, his PhD at McGill University, and spent a postdoctoral year at Yale University. He is the author of almost 50 books on the structure of the brain of humans and experimental animals, including *The Rat Brain in Stereotaxic Coordinates*, now in its 7th Edition, which is ranked by Thomson ISI as one of the 50 most cited items in the Web of Science. Dr. Paxinos paved the way for future neuroscience research by being the first to produce a three-dimensional (stereotaxic) framework for placement of electrodes and injections in the brain of experimental animals, which is now used as an international standard. He was a member of the first International Consortium for Brain Mapping, a UCLA based consortium that received the top ranking and was funded by the NIMH led Human Brain Project. Dr. Paxinos has been honored with more than nine distinguished awards throughout his years of research, including: The Warner Brown Memorial Prize (University of California at Berkeley, 1968), The Walter Burfitt Prize (1992), The Award for Excellence in Publishing in Medical Science (Assoc Amer Publishers, 1999), The Ramaciotti Medal for Excellence in Biomedical Research (2001), The Alexander von Humboldt Foundation Prize (Germany 2004), and more.

Charles Watson is a specialist in the area of brain and spinal cord mapping. He graduated in medicine from the University of Sydney in 1967 and was awarded a research doctorate (MD) by the University of New South Wales in 1974. He lectured in anatomy at the UNSW from 1970 to 1982, when he took up a career in public health in the Health Department of Western Australia, being appointed Chief Health Officer for WA in 1993.

He returned to university life in 1994, holding the position of Dean of Health Sciences at the University of Wollongong and Curtin University until 2006. Since then he has held research positions at Curtin and at Neuroscience Research Australia. Since 2006 he has published 11 books and over 40 journal articles.

Watson was made a member of the Order of Australia (AM) in 2004. He earned a DSc (by thesis) from the University of Sydney in 2012.

In his spare time he swims in the ocean, and he is an enthusiastic but mediocre player of the baritone saxophone. His musical favourites are Frank Zappa, Brian Eno, and Beethoven.

Users Review

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Stephen Conway:

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Ron Taylor:

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