

Atlas of the Human Brain, Third Edition

By Juergen K. Mai, George Paxinos, Thomas Voss

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High-resolution human imaging requires a high-resolution atlas. There is no atlas that approaches the accuracy and comprehensiveness of *The Atlas of the Human Brain*.
This is the third, thoroughly revised, edition of the very successful atlas that received the Award of Excellence from the American Association of Publishers. Constructed by the recognized leaders in brain cartography, the atlas provides the most detailed and accurate delineations of brain structure available. It is intended as an atlas for day-to-day use in the research laboratory to identify macroscopic and microscopic structures in the human brain as collected in research data with a variety of methods. It will also be particularly useful for the interpretation of magnetic resonance imaging data. The atlas includes a DVD with not only the atlas in electronic format, providing electronic versions of drawings and photographs to facilitate use of atlas contents with researchers' own material, but also 3D visualisation software that allows easy browsing of the images, and a feature to allow direct retrieval of brain areas using coordinates obtained in magnetic resonance imaging.

* Brain structures are presented in the standard Talairach and Tournoux stereotaxic space
* DVD contains MRI-Navigator (3D visualization of MR images), BrainNavigator (3D navigation through the detailed coronal atlas in PART 2) allowing the neuroimaging community to dial in the coordinates of their activation focus and find out what area of the brain the activation occurs in
* Significantly larger trim size (14 x 11 inches) providing much higher detail in the print graphics and photographs

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Editorial Review

About the Author
Jürgen Konrad Mai studied medicine in Freiburg, Germany, Vienna and UT Southwestern Medical School, Dallas, U.S.A. Student and Medical practices in Freiburg (Clinic for Neurosurgery), Berlin and Düsseldorf. Dissertation ("summa cum laude") and habilitation were awarded by the University of Düsseldorf: After a period as GP in private practice (Titisee-Neustadt) he became scientific assistant and senior assistant at the C. and O. Vogt-Institute for Brain Research, University of Düsseldorf (1972 - 1983) and 1983 Professor of Neuroanatomy at the Institute of Neuroanatomy, H.-Heine-University of Düsseldorf. He served as director of the Department of the Institute of Anatomy 1 until retirement in 2011.

The main research interests are (i) the structural and molecular anatomy of the mammalian brain, especially of the human brain and (ii) expression patterns and regulation of terminal carbohydrates in development, cell activation and disease (III) operation planning in stereotactic neurosurgery. He works on a "Digital Brain Atlas for Planning and Interindividual Registration of Targets in Deep Brain Stimulation" and on a "Spatial Information Management Resource for the Human Brain". J. K. Mai has edited the catalogue of human brain sections from the Vogt collection; he is author and editor of several books, e.g. the awarded "Atlas of the Human Brain" with CD-ROM (Academic Press/Elsevier, San Diego), "The Human Nervous System" (Academic Press/Elsevier, San Diego, Amsterdam, 3rd ed. 2012), Funktionelle Anatomie für Zahnmediziner (Quintessenz, Berlin, 2nd. ed. 2008; Sensi Divini (ital., engl., ger, russ. eds). J. K. Mai is CEO of MR-X-Brain GmbH.

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 Humbolt Foundation Prize (Germany 2004), and more.

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