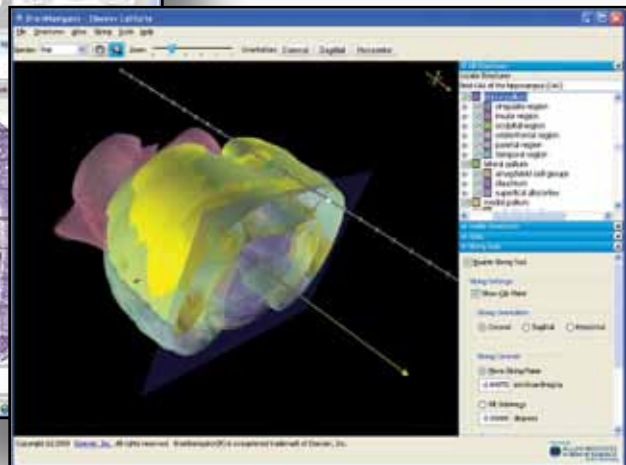
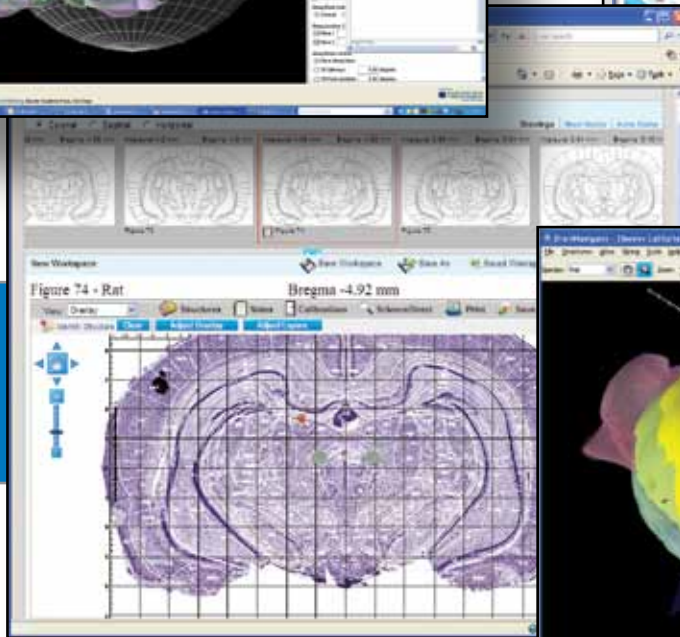
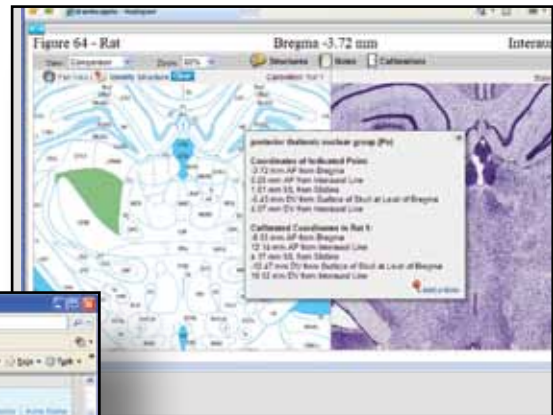
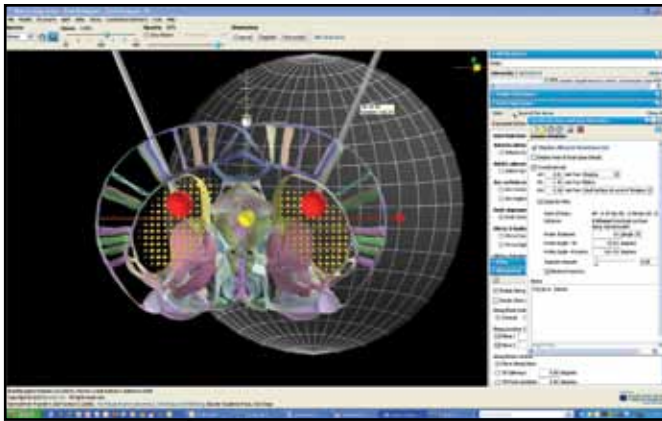


BrainNavigator

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Editors-in-Chief
George Paxinos
and
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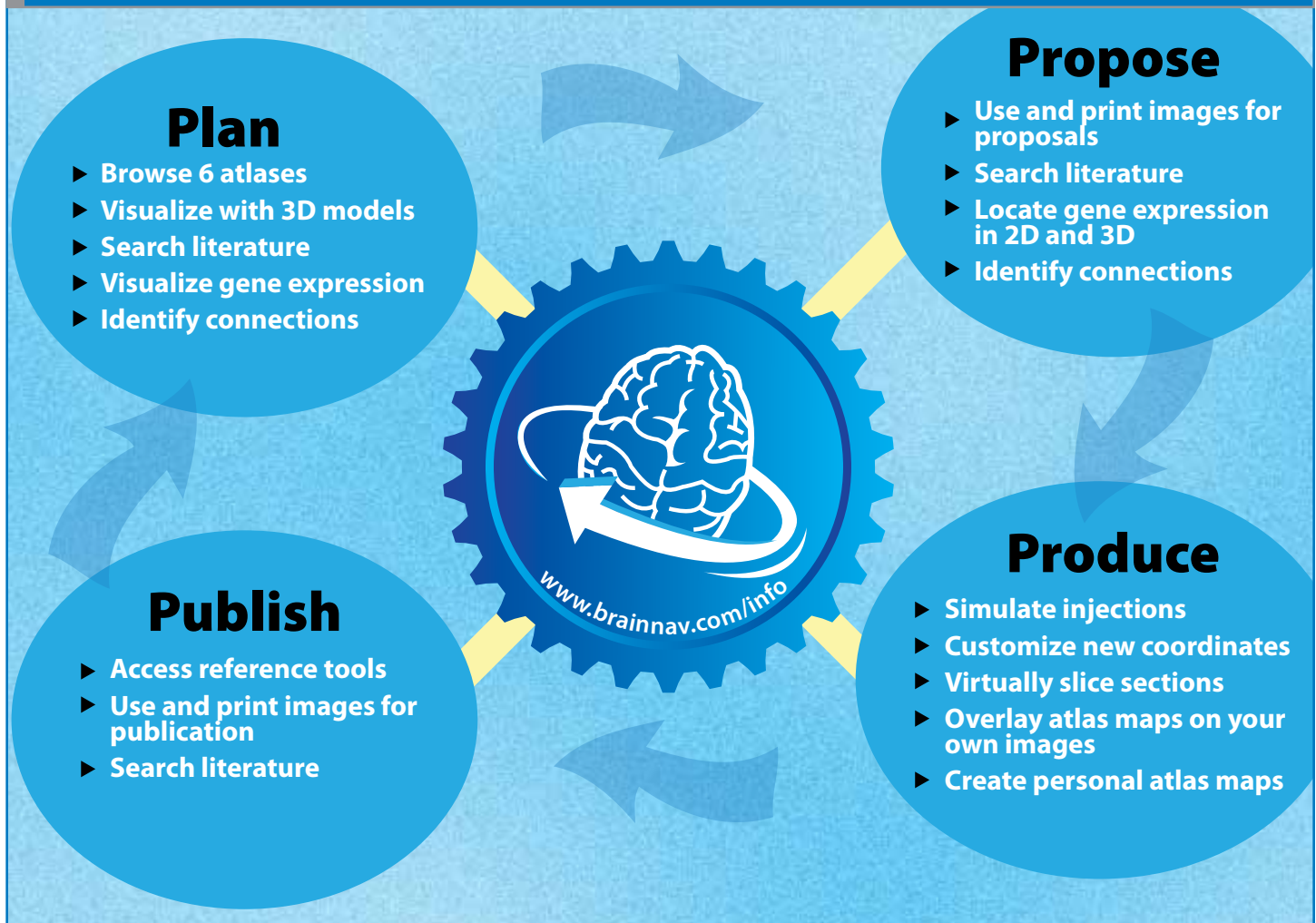


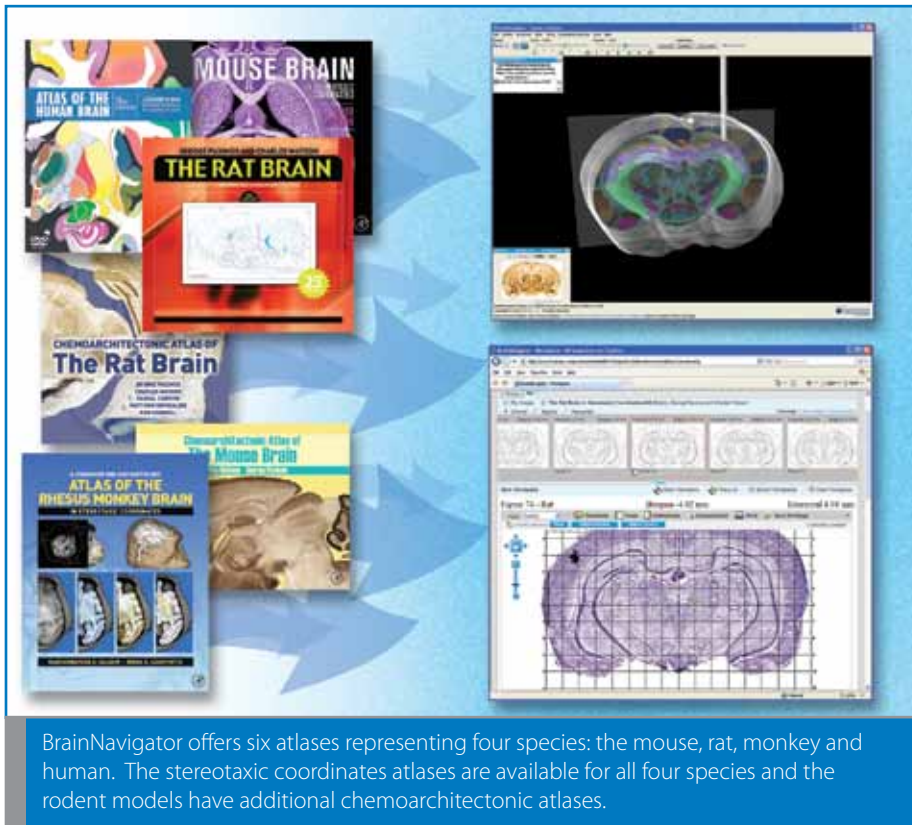
BrainNavigator

View the brain like never before!

BrainNavigator has revolutionized the way neuroscientists work, becoming a central hub for research. It integrates accurate content and innovative tools to improve the productivity, efficiency and quality of research. BrainNavigator helps locate specific areas of the brain, making visualizing and experimental planning in the brain easier.

With BrainNavigator, all of the tools and materials you need to efficiently manage your research processes are provided in one convenient location. From planning experiments to publishing your findings, BrainNavigator supports you every step of the way.





BrainNavigator offers six atlases representing four species: the mouse, rat, monkey and human. The stereotaxic coordinates atlases are available for all four species and the rodent models have additional chemoarchitectonic atlases.

HARNESS ADVANCED CAPABILITIES

BrainNavigator uniquely pairs 2D atlases with a 3D environment to help researchers visualize and optimize their work. As part of BrainNavigator's development process, we have gathered feedback from the neuroscience community and responded with product features that make research more efficient, accurate and informed.

For example, the interactive Image Overlay feature allows users to place BrainNavigator's atlas drawings or customized maps over their own images. This is particularly useful for annotation and users can save and share these precisely positioned notes with other users, providing context to the research when it is reviewed.

The Injection Planner helps locate specific areas inside the brain so that users can design where they want to place an electrode or infuse a drug. Users can simulate the injection volume in order to avoid cross contaminations with adjacent brain regions. It also displays which areas of the brain are damaged by the probe and allows users to customize the angle of implantation to find a path that avoids lesions of critical brain structures. This feature ensures that the injection is precise, viable and that users hit the planned target. This helps to increase efficiency and decreases the cost and time associated with losing animals involved in a study.

BrainNavigator offers:

- ❖ Rat, Mouse, Human and Monkey 2D and 3D models and tools for easy comparison between species
- ❖ Significant gains in stereotaxic accuracy to improve research efficiency and reduce errors
- ❖ A Virtual Slicing function that allows you to create a slice—or series of slices—at any angle to compare to your own histology and to help visualize procedures before they are executed
- ❖ Calibration of brain coordinates for each individual animal to increase hit rates, saving money and time
- ❖ Easy integration of gene expression data and images from the Allen Mouse Brain Atlas into the overlay and 3D BrainNavigator functions to find areas of interest
- ❖ Ability to use Paxinos-Watson atlases or create customized atlases from the integrated 3D models to overlay onto your own images and better visualize brain regions
- ❖ Over 1000 structures identified and modeled in 3D, including numerous fiber tracts and the cerebrospinal fluid cavities, providing the greatest structural accuracy and detail available
- ❖ Access to the Brain Architecture Management System (BAMS) to easily research brain regions, their neurons, expressed molecules and connections
- ❖ Links to primary literature in ScienceDirect, Scopus and PubMed for easy research and citation

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BrainLink is a new service that lists all neuroanatomical structures discussed in a journal article and embeds 2D and 3D visual images of those structures - extracted from BrainNavigator - in a window alongside journal articles on ScienceDirect.



"We are delighted to feature our cutting-edge 3-D technology as a part of BrainNavigator. By providing meaningful tools and rich content to the research community in a mixture of free and subscription content, the Allen Institute for Brain Science and Elsevier enable important advancements in brain research worldwide."

—Allan Jones, Ph.D., Chief Executive Officer, the Allen Institute for Brain Science

"I needed to do a publication search on whether two brain regions were connected. The new connectivity feature in BN made my search faster, easier and more efficient because I simply clicked "efferent" instead of culling through hundreds of papers on Pubmed"

—Claudia Farb, Center for Neural Science at New York University

A COLLABORATION OF TWO LEADERS IN NEUROSCIENCE INFORMATION

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