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## DESCRIPTION

*Brain Research* publishes papers reporting interdisciplinary investigations of **nervous system structure** and **function** that are of general interest to the international community of neuroscientists. As is evident from the journal's name, its scope is broad, ranging from cellular and molecular studies through systems neuroscience, cognition and disease. Invited reviews are also published; suggestions for and inquiries about potential reviews are welcomed.

With the appearance of the final issue of the 2011 subscription, Vol. 67/1-2 (24 June 2011), *Brain Research Reviews* has ceased publication as a distinct journal separate from *Brain Research*. Review articles accepted for *Brain Research* are now published in that journal.

N.B. Review articles are by invitation only; inquiries and suggestions for reviews should be directed to the *Brain Research* Editorial Office (bres@elsevier.com).

In the journal's Table of Contents, published papers will be shown under one of the Section titles listed below. Authors will be given the opportunity to choose the most appropriate section upon manuscript submission.

## SECTIONS

- **Cell Biology, Signaling** and **Synaptic Transmission**
  Studies investigating the cellular, molecular and genetic bases of structure, function and signaling (both intracellular and intercellular) in nervous systems.

- **Development, Degeneration** and **Regeneration**, and **Aging**
  Studies concerning neuronal and glial development and the formation of the nervous system, molecular and cellular aspects of degeneration and regeneration, and changes associated with the aging brain.

- **Systems Neuroscience** and **Behavior**
  Studies concerning structure and organization of neural circuits, sensory and motor systems, internal regulatory systems and the control of behaviors.

- **Cognition** and **Computation**
Studies of the neural mechanisms of cognition and behavior in humans and animal models including basic behaviors and higher mental functions; as well as studies dealing with realistic simulation, analysis and prediction of the structure and functions of nervous systems and individual neuronal and glial elements within nervous systems.

- **Neurobiology of Disease**
  Studies whose primary focus is on clinically diseased nervous systems or disease models, including molecular, cellular, systems and behavioral approaches and analysis of therapeutic interventions.

- **Reviews**
  Invited reviews on all aspects of nervous system structure and function. The editors welcome suggestions for specific review topics.

**AUDIENCE**

Neuroscientists, neurophysiologists, neuroendocrinologists, neurochemists, neuroanatomists, neuropharmacologists, neurologists.

**IMPACT FACTOR**

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GUIDE FOR AUTHORS

INTRODUCTION

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Studies concerning neuronal and glial development and the formation of the nervous system, molecular and cellular aspects of degeneration and regeneration, and changes associated with the aging brain.

Neurobiology of Disease
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Systems Neuroscience and Behavior
Studies concerning structure and organization of neural circuits, sensory and motor systems, internal regulatory systems and the control of behaviors.

Reviews
Invited reviews on all aspects of nervous system structure and function. The editors welcome suggestions for specific review topics.

TYPES OF PAPERS

1. Research Reports reporting results of original fundamental research in any branch of the brain sciences. Papers describing new methods or significant developments of recognised methods which provide significant insight into the structure or function of the nervous system, the pathophysiology of a disease, or its treatment may also be submitted. Articles should be written in sufficient detail to allow others to verify/replicate the described methods.

2. Reviews: Reviews are by invitation only. Inquiries and suggestions for reviews should be directed to the Brain Research Editorial Office (bres@elsevier.com).

Brain Research will also regularly publish thematic special issues highlighting important new developments in neuroscience research.
The Neuroscience Peer Review Consortium

*Brain Research* is a member of the Neuroscience Peer Review Consortium (NPRC). The NPRC has been formed to reduce the time expended and, in particular, the duplication of effort by, and associated burden on reviewers involved in the peer review of original neuroscience research papers. It is an alliance of neuroscience journals that have agreed to accept manuscript reviews from other Consortium journals. By reducing the number of times that a manuscript is reviewed, the Consortium will reduce the load on reviewers and Editors, and speed the publication of research results.

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**PREPARATION**

**Peer review**

This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. More information on types of peer review.

**Use of word processing software**

It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

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**Article structure**
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Divide your article into clearly defined and numbered sections (e.g. Abstract, 1. Introduction, 2. Results, 3. Discussion, 4. Experimental Procedure, Acknowledgements, References). Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to "the text". Any subsection may be given a brief heading. Each heading should appear on its own separate line.

Introduction
State the objectives of the work and provide relevant background information. Published studies should be described concisely, and be cited appropriately.

Results
The results should be described clearly and in logical order without extended discussion of their significance. Results should usually be presented descriptively and be supplemented by photographs or diagrams.

Discussion
The results of the research should be discussed in the context of other relevant published work; Extensive citations and discussion of published literature should be avoided. The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion section.

Experimental Procedure
This section should contain all the details necessary to reproduce the experiments. Avoid re-describing methods already published; only relevant modifications should be included in the text.

Essential title page information
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Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, "and", "of"). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

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Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

**Acknowledgements**

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Follow internationally accepted rules and conventions: use the international system of units (SI). If other units are mentioned, please give their equivalent in SI.

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**Electronic artwork**

**General points**

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- Use a logical naming convention for your artwork files.
- Provide captions to illustrations separately.
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A detailed guide on electronic artwork is available.

You are urged to visit this site; some excerpts from the detailed information are given here.

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