BRAIN RESEARCH
Guide for Authors

SCOPE

Brain Research publishes papers reporting interdisciplinary investigations of nervous system structure, function and chemistry at all levels of resolution, from molecular to behavioral and social that are of general interest to the broad community of neuroscientists. Clinical investigations, Protocols (i.e. methods papers) and Minireviews will also be considered for publication if they provide significant insight into the structure or function of the nervous system, the pathophysiology of a disease, or its treatment. Computational and theoretical papers will also be considered.

Minireviews will generally be by invitation, but suggestions are welcomed.

In the journal's Table of Contents, published papers will be shown under one of the appropriate Section titles listed (in bold type) below – either in *Brain Research* or, for review articles, in *Brain Research Reviews*.

SECTIONS

1. Cellular and Molecular Biology of Nervous Systems
Senior Editor: James I. Morgan (Memphis, TN, USA)
Associate Editors: Michael A. Dyer (Memphis, TN, USA), *(one other still to be appointed)*
All studies investigating the cellular, molecular and genetic bases of structure and function in nervous systems. Included are: molecular dissection of intracellular and extracellular signal transduction pathways, regulation and analysis of gene expression, use of viral vectors as well as genetically modified and model organisms, gene linkage studies, dynamic imaging of intracellular structures and molecules including protein trafficking, studies of cell morphogenesis, adhesion, migration and death, proteomics, and structural biology.

2. Nervous System Development, Regeneration and Aging
Senior Editor: Richard J. Smeyne (Memphis, TN, USA)
Associate Editors: Brian M. Davis (Pittsburgh, PA, USA), *(one other still to be appointed)*
All studies concerning the formation of the nervous system from a broad range of disciplines including neurogenetics, neurogenesis, gliagenesis, neural stem cells, neural induction and patterning, neuronal migration, cell death, differentiation, development of the blood-brain barrier, axon guidance, synaptogenesis, myelination, cell interactions in the developing nervous system, and imaging studies in human as well as animal model systems, involving both vertebrate and invertebrate species, and in vitro preparations.

3. Neurophysiology; Neuropharmacology; Other forms of Intercellular Communication
Senior Editor: Floyd E. Bloom (La Jolla, CA, USA)
Associate Editors: Barry J. Hoffer (Baltimore, MD, USA), Rita J. Valentino (Philadelphia, PA, USA)
All studies whose primary focus is on pre- and post-synaptic structure and function at the cellular and circuit level and their dissection by pharmacological means. This includes models of synaptic plasticity such as LTP and LTD as well as studies of ion channels and neurotransmitter receptors.

4. Structural Organization of the Brain
Senior Editor: Patrick R. Hof (New York, NY, USA)
Associate Editors: Javier de Felipe (Madrid, Spain), Teresa A. Milner (New York, NY, USA)
All studies whose primary focus is on the structural organization of the healthy nervous systems including estimates of regional and subregional volumes by any method (from microscopy to non-invasive functional imaging), as well as comparative neuroanatomic studies.

5. Sensory and Motor Systems
Senior Editor: James F. Baker (Chicago, IL, USA)
Associate Editors: Joan S. Baizer (Buffalo, NY, USA), Michael S. Gold (Baltimore, MD, USA)
All studies whose primary focus is on chemical senses, vision, auditory and vestibular sensation, somatic sensation (including pain), sensorimotor integration, oculomotor control, motor systems regulating locomotion, central pattern generators, and specific components of motor systems from spinal cord, cerebellum, thalamus to motor and pre-motor cortex.

6. Regulatory Systems
Senior Editor: Alan F. Sved (Pittsburgh, PA, USA)
Associate Editors: Timothy H. Moran (Baltimore, MD, USA), *(one other still to be appointed)*
All studies dealing with internal regulatory systems of the central and peripheral nervous systems, including: central modulatory, neuroendocrine and autonomic (cardiovascular, respiratory, thermo-, gastrointestinal, urogenital) regulation; stress and the brain; regulation of food intake and body weight; biological rhythms and sleep; brain bloodflow, metabolism and homeostasis.

7. Cognitive and Behavioral Neuroscience
Senior Editor: G. Ronald Mangun (Davis, CA, USA)
Associate Editors: Thomas F. Münte (Magdeburg, Germany), Christina L. Williams (Durham, NC, USA)

0006-8993/$ – see front matter
doi:10.1016/S0006-8993(06)00819-5

All studies of the neural mechanisms of cognition and behavior in humans and animals including basic behaviors such as feeding, mating, reproduction, and aggression, and higher mental functions such as attention, learning and memory, language, judgment, reasoning, decision-making, emotion, and higher-order perceptual and motor processes.

8. Disease-related Neuroscience

Senior Editor: Frank R. Sharp (Sacramento, CA, USA)

Associate Editors: George F. Koob (La Jolla, CA, USA), Herbert Y. Meltzer (Nashville, TN, USA)

All studies whose primary focus is on the structural organization of nervous systems of experimentally perturbed, or clinically diseased nervous systems including estimates of regional and subregional volumes by any method (from microscopy to non-invasive functional imaging), circuitry and synaptic details (by light and electron microscopy).

9. Computational and Theoretical Neuroscience

Senior Editor: Jonathan D. Cohen (Princeton, NJ, USA)

All studies dealing with the realistic simulations, analyses and predictions of the structure and functions of nervous systems and neuronal elements within a nervous system, and the development and application of databases of neuronal attributes across experimental preparations in order to compare quantitatively their differences in structure, function and responses to experimental perturbations.

SUBMISSION POLICY

Submission of a paper to *Brain Research* is understood to imply that it deals with original material not previously published, and that it is not being considered for publication elsewhere. Manuscripts submitted under multiple authorship are reviewed on the assumption that all listed Authors concur with the submission and that a copy of the final manuscript has been approved by all Authors and tacitly or explicitly by the responsible authorities in the laboratories where the work was carried out. If accepted, the article shall not be published elsewhere in the same form, in either the same or another language, without the consent of the Editors and Publisher.

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New nucleotide data must be submitted and deposited in the DDBJ/EMBL/GenBank databases and an accession number obtained before the paper can be accepted for publication. Submission to any one of the three collaborating databanks is sufficient to ensure data entry in all (see details below).

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Italics are not to be used for expressions of Latin origin, for example, in vivo, et al., per se. Use decimal points (not commas); use a space for thousands (10,000 and above). Authors in Japan please note that, upon request, Elsevier Japan will provide authors with a list of people who can check and improve the English of their paper (*before submission*). Please contact our Tokyo office: Elsevier, 4F Higashi-Azabu, 1 Chome Bldg, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044, Japan; phone: (03)-5561-5032; fax: (03)-5561-5045; e-mail: jp.info@elsevier.com.

The layout and style should adhere strictly to the instructions given under "Organisation of the Article".

No revisions or updates will be incorporated after the article has been accepted and sent to the Publisher (unless approved by the Editors).

SUBMISSION PROCEDURE

Web submission is required - instructions are available for downloading on the website http://www.editorialmanager.com/bres

Brain Research Editorial Office, Elsevier Science, 525 B Street, Suite 1900, San Diego, CA 92101-4495, USA; fax: (+1)-619-699.6855; e-mail: bres@elsevier.com

In the covering letter with their submission, Authors are required to state under which section heading their article, if accepted for publication, should appear (*see section titles above*). N.B. The section should be chosen on the basis of the technology used to study the problem described in the paper. The Editors reserve the right to reallocate a paper to another section if deemed more appropriate.

Review articles will *only* be published in *Brain Research Reviews*.

Where possible, Authors should also include a list of three or more potential reviewers for their manuscript, with contact information.

PREPARING ELECTRONIC MANUSCRIPTS

Keep text and graphics (and any other items) as separate files - *do not import the figures into the text file*. Name your files using the correct extension, e.g. text.doc, fig1a.eps, fig1.tif, Fig1.jpg, tbl1-6.xls, etc.

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