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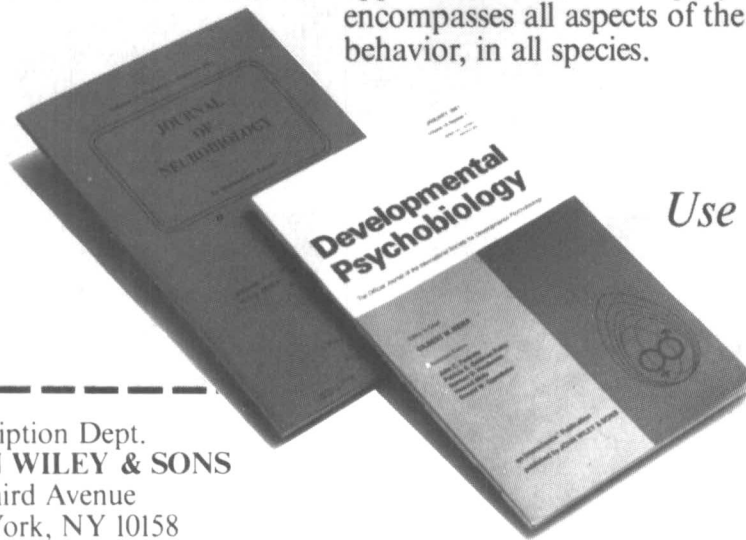
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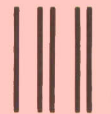
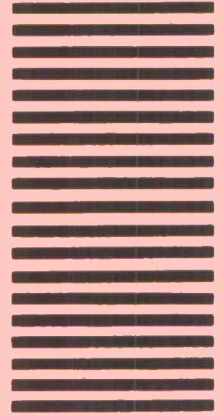


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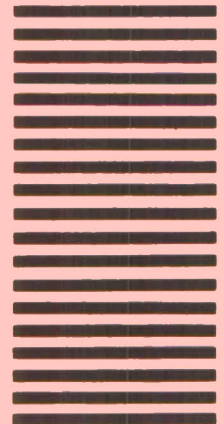


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Once the Commentary stage of the process has begun, the author can no longer alter his article, but he can respond formally to all commentaries accepted for publication. The target article, commentaries and author's response then co-appear in BBS. Continuing Commentary and replies can appear in later issues.

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To be eligible for publication, a paper should not only meet the standards of a journal such as *Psychological Review* or the *International Review of Neurobiology* in terms of conceptual rigor, empirical grounding, and clarity of style, but it should also offer a clear rationale for soliciting Commentary. That rationale should be provided in the author's covering letter, together with a list of suggested commentators. The original manuscript plus eight copies must be submitted.

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The service of Open Peer Commentary will be primarily devoted to original unpublished manuscripts. However, a recently published book whose contents meet the standards outlined above is also eligible for Commentary if the author submits a comprehensive, article-length précis to be published together with the commentaries and his response. In special cases, Commentary will also be extended to a position paper or an already published article dealing with particularly influential or controversial research. Submission of an article implies that it has not been published or is not being considered for publication elsewhere. Authors submitting previously published articles for consideration should give full information of place of publication, date, and include permission from the copyright holder to reprint. **The Associateship and professional readership of BBS are encouraged to nominate current topics and authors for Commentary.**

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- it unifies a substantial amount of disparate research;
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- it introduces an innovative methodology or formalism for consideration by proponents of the established forms;
- it significantly integrates a body of brain and behavioral data;
- it places a hitherto dissociated area of research into an evolutionary or ecological perspective, etc.

In order to assure communication with potential commentators (and readers) from other BBS specialty areas, **all technical terminology must be clearly defined or simplified, and specialized concepts must be fully described.**

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Style and format for articles and commentaries

Articles must not exceed 14,000 words (and should ordinarily be considerably shorter); **commentaries should not exceed 1,000 words.** Spelling, capitalization, and punctuation should be consistent within each article and commentary and should follow the style recommended in the latest edition of *A Manual of Style*, The University of Chicago Press. It may be helpful to examine a recent issue of BBS. A title should be given for each article and commentary. An auxiliary short title of 50 or fewer characters should be given for any article whose title exceeds that length. Each commentary must have a distinctive, representative **commentary title**. The contributor's name should be given in the form preferred for publication; the affiliation should include the full institutional address. **Two abstracts**, one of 100 and one of 250 words, should be submitted with every article. The shorter abstract will appear one issue in advance of the article; the longer one will be circulated to potential commentators and will appear with the printed article. A list of 5–10 keywords should precede the text of the article. Tables and figures (i.e. photographs, graphs, charts, or other artwork) should be numbered consecutively in a separate series. Every table and figure should have a title or caption and at least one reference in the text to indicate its appropriate location. Notes, acknowledgements, appendixes, and references should be grouped at the end of the article or commentary. Bibliographic citations in the text must include the author's last name and the date of publication and may include page references. Complete bibliographic information for each citation should be included in the list of references. Examples of correct style for bibliographic citations are: Brown (1973); (Brown 1973); (Brown 1973, 1978); (Brown 1973; Jones 1976); (Brown & Jones 1978); (Brown, Jones & Smith 1979) and subsequently, (Brown et al. 1979). References should be typed in alphabetical order in the style of the following examples:

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Authors are requested to submit their original manuscript with **eight copies** for refereeing, and commentators their original plus **two copies**, to: Stevan Harnad, Editor, The Behavioral and Brain Sciences, P.O. Box 777, Princeton, N.J. 08540.

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To appear in Volume 4, Number 2 (1981)

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Measurement of sensory intensity

Richard M. Warren, *University of Wisconsin-Milwaukee*

The history of sensory intensity measurement is described briefly. Possible bases for judgments of sensory magnitudes are discussed, with special emphasis on evidence indicating that judgments of sensory intensity are disguised estimates of physical magnitudes associated with changes in stimulation. Implications of this physical correlate theory for the relation between neural input and quantitative evaluation of sensation are considered.

With Commentary from H. Eysler, G. A. Gescheider, D. C. Hood & M. A. Finkelstein, G. J. Iverson, G. R. Lockhead, R. D. Luce, R. J. W. Mansfield, L. E. Marks, E. Mittenbecker, E. C. Poulton, S. J. Rule, M. Treisman, A. Tumarkin, W. R. Uttal, and others.

A multiple-level model of evolution and its implications for sociobiology

H. C. Plotkin, *University College London* and **F. J. Odling-Smee**, *Brunel University*

If there is only a single process of evolution that works through the selection of alternative alleles, then how is it possible to place socio-cultural phenomena within an evolutionary framework? The answer is that evolution operates at not one but several levels. These levels and the way they relate to each other are described. Implications for the sociobiology debate are considered.

With Commentary from J. H. Barkow, D. T. Campbell, D. A. Dewsbury, M. T. Ghiselin, D. L. Hull, T. D. Johnston & G. Gottlieb, P. H. Klopfer, R. C. Lewontin, M. Ridley, M. Ruse, E. E. Ruyle, L. B. Slobodkin, P. L. van den Berghe, D. Wahlsten, and others.

Categories, life, and thinking

Michael T. Ghiselin, *University of Utah*

Taxonomic theory has important applications for various behavioral sciences, largely because of the historical aspect of classification. Certain kinds of groups, such as species, are better interpreted as composite wholes, or "individuals" in the logical sense, than as classes. We probably think in different ways about different kinds of groups. A group of analogous features is a natural kind, but a group of homologous features is not. "Gene" and several other terms are used equivocally in the sociobiological literature. Misunderstandings about selection theory result from misapplication of categories.

With Commentary from M. Bunge, A. L. Caplan, P. A. Corning, H. Heise, D. L. Hull, T. D. Johnston, R. K. Jones & A. D. Pick, F. C. Keil, J. B. Kruskal, F. J. Odling-Smee & H. C. Plotkin, E. S. Reed, M. Ruse, S. N. Salthe, E. O. Wiley, and others.

Among the articles to appear in forthcoming issues of BBS:

BBS Multiple Book Review of C. R. Gallistel, *The organization of action: A new synthesis*

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K. M. Colby, "Modeling a paranoid mind"

J. Le Magnen, "The metabolic basis of dual periodicity of feeding in rats"

H. Rachlin, R. Battalio, J. Kagel, & L. Green, "Maximization theory in behavioral psychology"

P. K. Smith, "Does play matter? Functional and evolutionary aspects of animal and human play"

C. H. Vanderwolf & T. E. Robinson, "Reticulo-cortical activity and behavior: A new synthesis"

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