
PSYCHOLOGICAL SCIENCE



Cambridge
Journals

*Published for the
American Psychological Society*

EDITOR

William K Estes, *Harvard University*

Psychological Science is a new bimonthly publication being launched as the flagship journal of the American Psychological Society, founded 1988, to regain the scientific focus of psychological research. The journal is designed to be the forum for research, theory, and application in psychology and the closely related behavioral, cognitive, neural, and social sciences. The journal also considers psychology in government and public affairs. Unlike most research journals, *Psychological Science* encourages articles of general theoretical significance or of broad interest across specialties.

Recent Articles

The Prenatal Origins of Behavioral Organization,
William P Smotherman and Scott R Robinson

Facts, Fantasies, and the Future of Child Care in
the United States, *Sandra Scarr et al.*

Serial vs Parallel Processing, *James T Townsend*

Answering Reading Comprehension Items Without
Passages on the SAT, *Stuart Katz et al.*

Infants' Perception of Phase Structure in Music,
Carol L Krumhansl and Peter W Juszyk

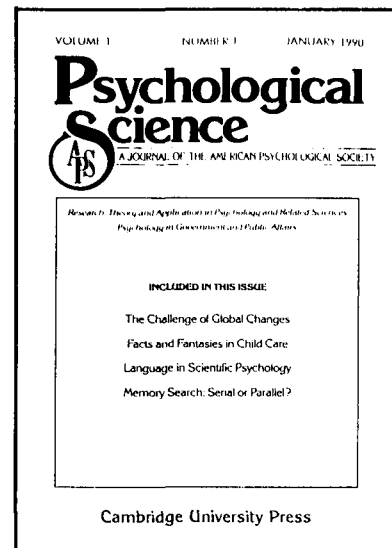
Psychological Science (ISSN 0956-7976) is published bimonthly. Volume 1 (1990) subscriptions (US and Canada only): \$100.00 institutions; \$50.00 for non-member individuals. APS members receive the journal as part of their dues.

Send order to:

Journals Department

Cambridge University Press

40 West 20th Street, New York, NY 10011, USA; or
The Edinburgh Building, Shaftesbury Road, Cambridge
CB2 2RU, UK



V I S U A L N E U R O S C I E N C E

Volume 6

May 1991

Number 5

CONTENTS

Research Articles

- HEATHER M. YOUNG AND JOHN D. PETTIGREW 409 Cone photoreceptors lacking oil droplets in the retina of the echidna, *Tachyglossus aculeatus* (Monotremata)
- D.J. TOLHURST AND A.F. DEAN 421 Evaluation of a linear model of directional selectivity in simple cells of the cat's striate cortex
- DANRU ZHANG AND HERMES H. YEH 429 Protein kinase C-like immunoreactivity in rod bipolar cells of the rat retina: A developmental study
- JOHN C. ARMINGTON, ALAN R. ADOLPH, AND SHUANG WU 439 Spatial properties of ganglion cell activity in turtle retina
- ANTON REINER, JONATHAN T. ERICHSEN, JOHN B. CABOT, CRAIG EVINGER, MALINDA E.C. FITZGERALD, AND HARVEY J. KARTEN 451 Neurotransmitter organization of the nucleus of Edinger-Westphal and its projection to the avian ciliary ganglion
- RUTH R. BENNETT AND RICHARD H. WHITE 473 11-cis retinal restores visual function in vitamin A-deficient *Manduca*
- B.G. CALMAN AND B.-A. BATTELLE 481 Central origin of the efferent neurons projecting to the eyes of *Limulus polyphemus*
- SHIGERU WATANABE 497 Effects of ectostriatal lesions on natural concept, pseudoconcept, and artificial pattern discrimination in pigeons
- ROBERT E. SOODAK 507 Reverse-Hebb plasticity leads to optimization and association in a simulated visual cortex
- M.V. SRINIVASAN, M. LEHRER, W.H. KIRCHNER, AND S.W. ZHANG 519 Range perception through apparent image speed in freely flying honeybees
- A.T. ISHIDA AND M.-H. CHENG 537 Synchronous neurite branchings in single goldfish retinal ganglion cells
- 551 Detailed Information for Contributors
- 552 The Humane Care and Use of Animals

ISSN 0952-5238

© 1991 Cambridge University Press

Printed in the United States of America