PSYCHOLOGICAL SCIENCE



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.

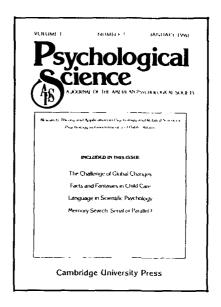
Serial vs Parallel Processing, James T Townsend

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 Jusczyk

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 NEUROSCIENCE

Volume 7

December 1991

Number 6

CONTENTS

Research Articles

Michael A. Kirby and Thomas C. Steineke	513	Early dendritic outgrowth of primate retinal ganglion cells
Duane G. Albrecht and Wilson S. Geisler	531	Motion selectivity and the contrast-response function of simple cells in the visual cortex
ROGER P. ZIMMERMAN AND MICHAEL W. LEVINE	547	Complicated substructure from simple circularly symmetric Gaussian processes within the centers of goldfish ganglion cell receptive fields
JOHN H.R. MAUNSELL, GARY SCLAR, TARA A. NEALEY, AND DERRYL D. DEPRIEST	561	Extraretinal representations in area V4 in the macaque monkey
LEO PEICHL	575	Catecholaminergic amacrine cells in the dog and wolf retina
Joel E. Brown, Anthony Combs, Karen Ackermann, and Craig C. Malbon	589	Light-induced GTPase activity and GTP $[\gamma S]$ binding in squid retinal photoreceptors
HARRIS RIPPS AND RICHARD L. CHAPPELL	597	Ultrastructural and electrophysiological changes associated with K+-evoked release of neurotransmitter at the synaptic terminals of skate photoreceptors
Roberta G. Pourcho and Michael T. Owczarzak	611	Glycine receptor immunoreactivity is localized at amacrine synapses in cat retina
D.P.M. Northmore and A.M. Granda	619	Refractive state, contrast sensitivity, and resolution in the freshwater turtle, <i>Pseudemys scripta elegans</i> , determined by tectal visual-evoked potentials
D.P.M. Northmore and A.M. Granda	627	Ocular dimensions and schematic eyes of freshwater and sea turtles
		Short Communication
N.N. Osborne, F. Block, and KH. Sontag	637	Reduction of ocular blood flow results in glial fibrillary acidic protein (GFAP) expression in rat retinal Müller cells
	641	Acknowledgment to Ad Hoc Reviewers
	643	Detailed Information for Contributors
	644	The Humane Care and Use of Animals
	645	Author Index and Contents to Volume 7

ISSN 0952-5238
© 1991 Cambridge University Press
Printed in the United States of America