DEVELOPMENT AND PSYCHOPATHOLOGY



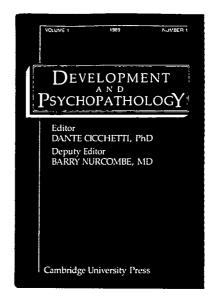
EDITORS:

Dante Cicchetti, University of Rochester Barry Nurcombe, Child and Adolescent Psychiatric Hospital, Vanderbilt University

This multidisciplinary journal is devoted to the publication of original empirical, theoretical and review papers which address the interrelationship of normal and pathological development in adults and children. It is intended to serve and integrate the emerging field of developmental psychopathology which strives to understand patterns of adaptation and maladaptation throughout the life span. Explorations of abnormal functioning in the social, emotional, cognitive, linguistic and biological domains help to clarify normal developmental processes. Reciprocally, elucidations of principles of normal development help to broaden our understanding of psychopathological conditions. Contributions may also be on the processes underlying the adaptive outcomes in populations "at risk" for psychopathology. This journal is of vital interest to psychologists, psychiatrists, social scientists, neuroscientists, pediatricians and researchers.

Development and Psychopathology (ISSN 0954-5794) is published quarterly. Subscriptions to Volume 1 (1989) or Volume 2 (1990) are each \$75.00 for institutions; \$35.00 for individuals; single parts \$20.00.

Send orders to:
Journals Department
Cambridge University Press
40 West 20th Street
New York, NY 10011



BEHAVIORAL and BRAIN SCIENCES



EDITOR:

Stevan Harnad, Princeton, NJ

Behavioral and Brain Sciences publishes particularly significant and controversial "target articles." These have been successful in drawing out the leading investigators in a wide range of fields who discuss, debate and critically analyze topics of current interest to the entire biobehavioral science community. Fascinating and often surprising results come from the 20-30 open peer commentaries on each target article from psychologists, linguists. philosophers, neuroscientists, anthropologists, developmentalists and other specialists within and across these disciplines.

Selected Papers

Sex differences in human mate preferences: Evolutionary hypothesis tested in 37 cultures, D.M. Buss

A solution to the tag-assignment problem for neural networks, Gary W. Strong, Bruce A. Whitehead

Strategies for the control of voluntary movements with one degree of freedom, G.L. Gottlieb et al.

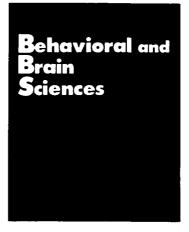
Numerical competence in animals: Definitional issues, current evidence and a new research agenda, H. Davis, R. Perusse

Genetic similarity, human altruism, and group intelligence, J. Philippe Rushton

Behavioral and Brain Sciences (ISSN 0140-525X) is published quarterly. Subscription to Volume 13 1990 (US and Canada only): \$164.00 for institutions; \$69.00 for individuals; single parts \$45.00.

Back Volumes: 1-12 (1978-1989) \$160.00 each.

Send orders to:
Journals Department
Cambridge University Press
40 West 20th Street, New York, NY 10011, USA; or
The Edinburgh Building, Cambridge CB2 2RU, UK



PSYCHOLOGICAL Cambridge Journals **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.

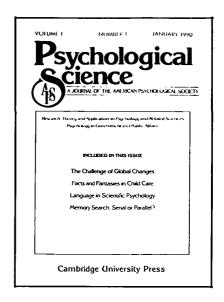
Serial vs Parallel Processing, James T Townsend

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 nonmember 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 5 November 1990

Number 5

CONTENTS

Research Articles

		Alebear of Artificial
Konrad Kohler, Walter Kolbinger, Gertrud Kurz-Isler, and Reto Weiler	417	Endogenous dopamine and cyclic events in the fish retina, II: Correlation of retinomotor movement, spinule formation, and connexon density of gap junctions with dopamine activity during light/dark cycles
Gregory M. Zinkl Linnette Maier, Kent Studer, Randall Sapp, De-Mao Chen, and William S. Stark	429	Microphotometric, ultrastructural, and electrophysiological analyses of light-dependent processes on visual receptors in white-eyed wild-type and norpA (no receptor potential) mutant Drosophila
Jens Nicolai Brink Larsen, Maurizio Bersani, James Olcese, Jens Juul Holst, and Morten Møller	441	Somatostatin and prosomatostatin in the retina of the rat: An immunohistochemical, in-situ hybridization, and chromatographic study
R.G. Smith and P. Sterling	453	Cone receptive field in cat retina computed from microcircuitry
Martin S. Gizzi, Ephraim Katz and J. Anthony Movshon	463	Spatial and temporal analysis by neurons in the representation of the central visual field in the cat's lateral suprasylvian visual cortex
Ido Perlman and Richard A. Normann	469	The effects of GABA and related drugs on horizontal cells in the isolated turtle retina
S.R. Wang and N. Matsumoto	479	Postsynaptic potentials and morphology of tectal cells responding to electrical stimulation of the bullfrog nucleus isthmi
Douglas R. Wylie and Barrie J. Frost	489	Binocular neurons in the nucleus of the basal optic root (nBOR) of the pigeon are selective for either translational or rotational visual flow
R.A. Giolli, R.H.I. Blanks, Y. Torigoe, R.J. Clarke, J.H. Fallon, and F.M Leslie	497	Opioid receptors in the accessory optic system of the rat: Effects of monocular enucleation
	507	Erratum
	509	Detailed Information for Contributors
	510	The Humane Care and Use of Animals

ISSN 0952-5238

© 1990 Cambridge University Press Printed in the United States of America