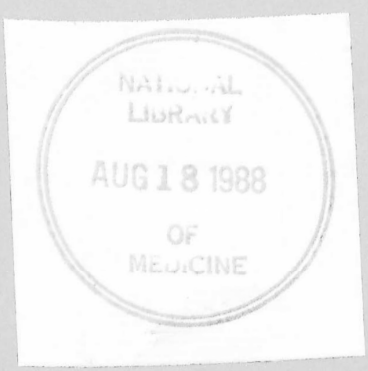


457 WT BR114S
NO. 2 1988
SEQ: B33180000
BRAIN RESEARCH

BRAIN RESEARCH

INTERNATIONAL MULTIDISCIPLINARY JOURNAL
DEVOTED TO FUNDAMENTAL RESEARCH IN THE
BRAIN SCIENCES

EDITOR-IN-CHIEF — D. P. PURPURA



ELSEVIER

VOL. 457 NO. 2

Published weekly

9 AUGUST 1988

Completing Volume 457

ISSN 0006-8993
BRREAP 457 (2) 205-410 (1988)

Argentum Pharm. v. Research Corp. Techs., IPR2016-00204
RCT EX. 2053 - 1/11

SCOPE AND PURPOSE

BRAIN RESEARCH provides a medium for prompt publication of articles in the fields of neuroanatomy, neurochemistry, neurophysiology, neuroendocrinology, neuropharmacology, neurotoxicology, neurocommunications, behavioural sciences, molecular neurology and biocybernetics. Clinical studies that are of fundamental importance and have a direct bearing on the knowledge of the structure and function of the brain, the spinal cord, and the peripheral nerves will also be published.

TYPE OF PAPERS

1. **Research Reports** reporting results of original fundamental research in any branch in the brain sciences. It is expected that these papers will be published about six months after acceptance.
2. **Short Communications** reporting on research which has progressed to the stage when it is considered that the results should be made known quickly to other workers in the field. The maximum length allowed will be 1500 words or equivalent space in tables and illustrations. It is expected that short communications will be published about three months after acceptance.
3. **Review articles.** A supplementary volume entitled Brain Research Reviews will be published quarterly which will be devoted to Review articles and occasionally long research papers with extensive review components, giving a survey, an evaluating and critical interpretation of recent research data and conceptions in a particular field of brain research or on a specific problem or topic of interest to workers in the brain sciences.

INSTRUCTIONS TO AUTHORS

Manuscripts should be submitted *in quadruplicate* and be complete in all respects (including four copies of all illustrations), and deal with original material not previously published, or 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 manuscript shall not be published elsewhere in the same form, in either the same or another language, without the consent of the Editors and Publisher. Submission of a paper to **Brain Research** is understood to imply that it has not previously been published (except in abstract form) and that it is not being considered for publication elsewhere.

The Publisher and Editor-in-Chief regret that they are unable to return copies of submitted manuscripts except in the case of rejected articles, where only the original manuscript and figures are returned to the author.

Research reports, short communications and review articles should be sent to:

Professor Dr. D. P. PURPURA
Brain Research
Office of the Dean
Albert Einstein College of Medicine
1300 Morris Park Avenue
Bronx, NY 10461, U.S.A. Telephone: (1)(212) 430-2387

Authors should clearly state the section for which the article should be considered. Review articles will only be published in **Brain Research Reviews**. Developmental studies and molecular studies may be considered at the request of the author for publication in *Brain Research*, but will usually be considered for the appropriate section.

Correspondence. All questions arising **after acceptance** of a manuscript by the editor, especially those relating to proofs, publication and reprints, should be directed to the Publisher, Elsevier Science Publishers B.V., P.O. Box 1527, 1000 BM, Amsterdam, The Netherlands. Telephone: (31) (20) 5803-467.

Page charge. A charge of US\$ 65.00 will be levied for each printed page in excess of 12 printed pages for **Research Reports** and 6 printed pages for **Short Communications**. Upon receipt of each typescript its size in printed pages is estimated by the Publisher. If the estimate is higher than the limits allowed, the authors are advised that they may expect a page charge, the exact amount of which is fixed after the definite length of their paper is known. As an approximate guide to authors for judging the length of their paper, the following estimations may be used:

2.5 type-written pages = 1 printed page; 2 'average' figures + legends = 1 printed page; 3 'average' tables = 1 printed page; 30 references = 1 printed page.

Manuscripts. Manuscripts should be written in English and be accompanied by a list of 6–8 **key words** and a **summary** of about 200 words for **Research Reports** and 50–70 words for **Short Communications**, on a separate page. Manuscripts must be submitted in four copies in **double-spaced** typing with at least a 4 cm margin on pages of uniform size. As a rule research reports and review articles should be **divided into sections** headed by a caption (Summary, Introduction, Materials and Methods, Results, Discussion, Acknowledgements, References). Short communications should contain no section headings. In order to ensure rapid publication, no revisions or up-datings will be incorporated into a short communication after the manuscript has been accepted and sent to the Publisher.

Authors' full names, academic or professional affiliations, and **complete addresses** should be included on a separate title page. The name and address of the author to whom proofs and correspondence are to be sent should be given.

Literature references. Citation of literature references in the text should be given at the appropriate places by numbers as superscripts without parentheses. All references cited in the text should be listed at the end of the paper on a separate page (also double-spaced) arranged in alphabetical order of first author and numbered consecutively. All items in the list of references should be cited in the text and, conversely, all references cited in the text must be presented in the list.

Literature references must be complete, including initials of the authors cited, title of paper referred to, abbreviated title of the periodical, volume, year, and first and last page numbers of the article. The abbreviations of journal titles should conform to those adopted by *List of Serial Title Word Abbreviations*, CIEPS/ISDS, Paris, 1985 (ISBN 2-904938-02-8). (See example 2.) The form of literature references to books should be: author, initials, title of book, publisher and city, year and page number referred to. (See example 1.) References to authors contributing to multi-author books or to proceedings printed in book-form should be similar to those for books. (See example 3.)

Examples:

- 1 Bureš, J., Burešová, O. and Huston, J. P., *Techniques and Basic Experiments for the Study of Brain and Behavior*, 2nd edn., Elsevier, Amsterdam, 1983, 326 pp.
- 2 Langston, J. W., Irwin, I., Langston, E. B. and Forno, L. S., The importance of the '4–5' double bond for neurotoxicity in primates of the pyridine derivative MPTP, *Neurosci. Lett.*, 50 (1984) 289–294.
- 3 Sofroniew, M. V., Morphology of vasopressin and oxytocin neurones and their central and vascular projections. In B. A. Cross and G. Leng (Eds.), *The Neurohypophysis: Structure, Function and Control, Progress in Brain Research, Vol. 60*, Elsevier, Amsterdam, 1983, pp. 101–114.

This journal should be cited in the list of references as *Brain Research*.

(continued on inside back cover)

Advertisement rates are available from the Publisher upon request.

Argentum Pharm. v. Research Corp. Techs., IPR2016-00204
RCT EX. 2053 - 2/11

BRAIN RESEARCH

VOLUME 457/2 (1988)



ELSEVIER SCIENCE PUBLISHERS B. V.
AMSTERDAM

This material was copied
at the NLM and may be
Subject US Copyright Laws

Argentum Pharm. v. Research Corp. Techs. JPB2016-00204

© 1988, Elsevier Science Publishers B.V. (Biomedical Division)

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the Publisher, Elsevier Science Publishers B.V. (Biomedical Division), P.O. Box 1527, 1000 BM Amsterdam, The Netherlands.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Because of the rapid advances in the medical sciences, the Publisher recommends that independent verification of diagnoses and drug dosages should be made.

Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

Special regulations for authors. Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the Publisher. This transfer will ensure the widest possible dissemination of information.

Submission of a paper to this journal entails the author's irrevocable and exclusive authorization of the Publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17, paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S. 351) pursuant to article 16b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Special regulations for readers in the U.S.A. This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, U.S.A. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1980 may be copied for a per-copy fee of US\$ 2.25, also payable through the Center. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the Publisher for such copying.

Printed in The Netherlands.

This material was copied
at the NLM and may be
subject US Copyright Laws

BRAIN RESEARCH

VOL. 457 NO. 2

CONTENTS

9 AUGUST 1988

Research Reports

- Release of D-[³H]aspartate and [¹⁴C]GABA in rat hippocampus slices: effects of fatty acid-free bovine serum albumin and Ca²⁺ withdrawal (BRE 13828) 205
 D. Minc-Golomb, S. Eimerl, Y. Levy and M. Schramm (Israel)
- Heterogeneity of [³H]neurotensin binding: studies with dynorphin, L-156,903 and levocabastine (BRE 13830) 212
 D.J. Pettibone, J.A. Totaro, E. Harris and F.M. Robinson (U.S.A.)
- Central and peripheral release of vasopressin and oxytocin in the conscious rat after osmotic stimulation (BRE 13831) 219
 R. Landgraf, I. Neumann and H. Schwarzberg (G.D.R.)
- Evidence for a role of the N-methyl-D-aspartate (NMDA) receptor in cortical spreading depression in the rat (BRE 13832) 226
 R. Marranes, R. Willems, E. de Prins and A. Wauquier (Belgium)
- The role of adenylate cyclase in relaxation of brain arteries: studies with forskolin (BRE 13833) 241
 Y. Suzuki, M. Huang, K. Lederis and O.P. Rorstad (Canada)
- Neurotrophic effects of steroids on lesion-induced growth in the hippocampus. I. The asteroïdal condition (BRE 13834) 246
 S.W. Scheff, J.K. Morse and S.T. DeKosky (U.S.A.)
- Pressor responses evoked by microinjections of L-glutamate into the caudal ventrolateral medulla of the rat (BRE 13835) 251
 F.J. Gordon and L.A. McCann (U.S.A.)
- Inhibition of striatal acetylcholine release by endogenous serotonin (BRE 13838) 259
 D. Jackson, M.K. Stachowiak, J.P. Bruno and M.J. Zigmond (U.S.A.)
- Inhibition of striatal acetylcholine release by serotonin and dopamine after the intracerebral administration of 6-hydroxydopamine to neonatal rats (BRE 13839) 267
 D. Jackson, J.P. Bruno, M.K. Stachowiak and M.J. Zigmond (U.S.A.)
- Retention of CS-US association learned under ketamine anesthesia (BRE 13840) 274
 J.-M. Edeline and N. Neuwander-El Massioui (France)
- The effect of amitriptyline on growth of olfactory and cerebral neurons in vitro (BRE 13841) 281
 A.I. Farbmann, F. Gonzales and M. Inn Chuah (U.S.A., Hong Kong)
- A comparison of the effects of intra-accumbens injections of amphetamine and morphine on reinstatement of heroin intravenous self-administration behavior (BRE 13843) 287
 J. Stewart and P. Vezina (Canada)
- Expression of glial fibrillary acidic protein by differentiated astrocytes is regulated by serum antagonistic factors (BRE 13846) 295
 L. Bologa, R. Cole, F. Chiappelli, R.P. Saneto and J. De Vellis (Switzerland, U.S.A.)
- Evidence for involvement of an adrenal catecholamine in the β -adrenergic inhibition of oxytocin release in lactating rats (BRE 13851) 303
 S.-L. Song, W.R. Crowley and C.E. Grosvenor (U.S.A.)
- Cardiovascular and respiratory responses to electrical and chemical stimulation of the hippocampus in anesthetized and awake rats (BRE 13852) 310
 K.G. Ruit and E.J. Neafsey (U.S.A.)
- Prolonged exposure to high potassium concentration results in irreversible loss of synaptic transmission in hippocampal tissue slices (BRE 13853) 322
 K. Kawasaki, G. Czéh and G.G. Somjen (U.S.A.)
- Tyrosine availability and brain noradrenaline synthesis in the fetus: control by maternal tyrosine ingestion (BRE 13855) 330
 M.V. Garabal, R.M. Arévalo, M.D. Díaz-Palarea, R. Castro and M. Rodríguez (Spain)
- Brainstem command systems for locomotion in the lamprey: localization of descending pathways in the spinal cord (BRE 13857) 338
 A.D. McClellan (U.S.A.)

(contents continued on p. 410)

Cited in *Biological Abstracts (BIOSIS)* — *Chem. Abstracts* — *Index Medicus* — *Current Contents (Life Sci.)* — *Excerpta Medica (EMBASE)* — *Psychological Abstracts (PsycINFO)* — *PASCAL M*

This material was copied
 at the NLM and may be
 subject to US Copyright Law

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.