

European Journal of Pharmacology

The EUROPEAN JOURNAL OF PHARMACOLOGY publishes full-length papers, short communications and rapid communications on the mechanisms of action of chemical substances affecting biological systems. The journal also considers short reviews (not exceeding 12 pages in print) intended to debate recent advances in rapidly developing fields that are within its scope.

Full length papers and short communications are grouped under the following headings: Molecular and cellular pharmacology, Neuropharmacology and analgesia, Behavioural pharmacology, Cardiovascular pharmacology, Pulmonary, gastrointestinal and urogenital pharmacology, Immunopharmacology and inflammation, and Endocrine pharmacology.

Manuscripts submitted to the journal are accepted on the understanding that: (1) they are subject to editor review, (2) they have not been and will not be published in whole or in part in any other journal and (3) recommendations of the Declarations of Helsinki and Tokyo, for humans, and the European Community guidelines as accepted principles for the use of experimental animals have been adhered to. The European Journal of Pharmacology will, therefore, only consider manuscripts that describe experimenets which have been carried out under approval of an institutional or local ethics committee. Authors must state in the manuscript that protocol complies with the particular recommendation and that approval of their protocols was obtained.

Abridged ‘General instructions’ for authors are published at the end of each issue. Essential detailed instructions will be found in the ‘Notice to authors’, published once yearly (for 2002, in Vol. 438, Nos. 1–2, pages v–x).

Founded in 1967. Founding editors: David de Wied and Jacques van Rossum.

Editors: W.H. GISPEN, Utrecht (chairman) J. BRUINVELS, Utrecht F.P. NIJKAMP, Utrecht D.H.G. VERSTEEG, Utrecht

Honorary editor: D. DE WIED

Editorial board:

I.M. ADCOCK, London	M. ELTZE, Konstanz	J.P. PIN, Montpellier
C. ADVENIER, Paris	M. ENDOH, Yamagata	R. PRZEWLOCKI, Kraków
J.M. BAEYENS, Granada	E. FRIDE, Ariel	P.R. SAXENA, Rotterdam
L. BARTHÓ, Pécs	G.F. GEBHART, Iowa City	A. SCHOUSBOE, Copenhagen
A. BESPALOV, Saint-Petersburg	M. HAMON, Paris	R. SCHULZ, München
G. BIGGIO, Cagliari	Z. KLEINROK, Lublin	P. SKOLNICK, Hackensack
S.D. BRAIN, London	M. LAZDUNSKI, Valbonne	J.C. STOCLET, Strasbourg
O.E. BRODDE, Halle	R. LEFEBVRE, Gent	H.H.M. VAN TOL, Toronto
H. BULT, Wilrijk	M.J. LOHSE, Würzburg	E.S. VIZI, Budapest
D.B. BYLUND, Omaha	W. LÖSCHER, Hannover	S.P. WELCH, Richmond
F. CATTABENI, Milan	J. McCULLOCH, Edinburgh	B.J.R. WHITTLE, London
C.H. CHO, Hong Kong	K.P. MINNEMAN, Atlanta	Z. WIESENFELD-HALLIN, Huddinge
O. CIVELLI, Irvine	S. NAHORSKI, Leicester	J. WIKBERG, Uppsala
R. DANTZER, Bordeaux	D.W. NEBERT, Cincinnati	X.-Z. ZHU, Shanghai
F. DRAGO, Catania	J.M. PFEILSCHIFTER, Frankfurt	

Consultants:

E. AIZENMAN, Pittsburgh; K.-E. ANDERSSON, Lund; E. BEUBLER, Graz; J. BOCKAERT, Montpellier; R. BUSSE, Frankfurt/M; S.J. COOPER, Liverpool; R. COUTURE, Montreal; G. DI CHIARA, Cagliari; G.Z. FEUERSTEIN, Wilmington; A.W. FORD-HUTCHINSON, West Point; J.A. GARCÍA-SÁINZ, Mexico City; A.R. GREEN, London; A. HERMAN, Antwerpen; P. HOLZER, Graz; D. HOYER, Basel; J.P. HUIDOBRO-TORO, Santiago; E.C. HULME, London; K.H. JAKOBS, Essen; H. KARAKI, Tokyo; H. KLEINERT, Mainz; K.P. LESCH, Würzburg; B.R. LUCCHESI, Ann Arbor; H. MEURS, Groningen; D.N. MIDDLEMISS, Harlow; M.J. MILLAN, Croissy-sur-Seine; F. MORONI, Florence; T. NABESHIMA, Nagoya; M. OTSUKA, Tokyo; J.N. PENNEFATHER, Parkville; A. PERTOVAARA, Turku; R. QUIRION, Verdun; U. RAVENS, Essen; M.E.A. REITH, Chicago; H. SCHOEMAKER, Bagneux; J.F.M. SMITS, Maastricht; K. STARKE, Freiburg im Breisgau; L.A. URBAN, Basel; R.J. WINQUIST, Ridgefield

Contents continued

Temperature dependency of P2 receptor-mediated responses

A.U. Ziganshin, A.V. Rychkov, L.E. Ziganshina and G. Burnstock 107

IMMUNOPHARMACOLOGY AND INFLAMMATION

Effects of FK506 (tacrolimus hydrate) on chronic oxazolone-induced dermatitis in rats

Y. Fujii, H. Takeuchi, K. Tanaka, S. Sakuma, Y. Ohkubo and S. Mutoh 115

SSR125329A, a high affinity σ receptor ligand with potent anti-inflammatory properties

B. Bourrié, E. Bribes, N. De Nys, M. Esclangon, L. Garcia, S. Galiègue, P. Lair, R. Paul, C. Thomas, J.-C. Vernières and P. Casellas 123

ENDOCRINE PHARMACOLOGY

Abnormal incorporation and utilization of α-tocopherol in erythrocyte membranes of streptozotocin-induced diabetic rats

K. Shinozaki, H. Takeda, M. Inazu, T. Matsumiya and M. Takasaki 133

Effects of S 21403 on hormone secretion from isolated rat pancreas at different glucose concentrations

F. Gregorio, F. Ambrosi, M. Boemi, F. Carle and P. Filippini 141

Albutropin: a growth hormone–albumin fusion with improved pharmacokinetics and pharmacodynamics in rats and monkeys

B.L. Osborn, L. Sekut, M. Corcoran, C. Poortman, B. Sturm, G. Chen, D. Mather, H.L. Lin and T.J. Parry 149

Author index 159

Keyword index 161

This journal is in the ADONIS Service, whereby copies of individual articles can be printed out from CD-ROM on request. An explanatory leaflet can be obtained by writing to: ADONIS B.V., P.O. Box 993, 1000 AZ Amsterdam, The Netherlands. Or you can contact ADONIS by e-mail: info@adonis.nl or visit the website at www.adonis.nl

Advertising information: Advertising orders and enquiries can be sent to: **USA, Canada and South America:** Mr Tino DeCarlo, The Advertising Department, Elsevier Science Inc., 360 Park Avenue South, New York, NY 10010-1710, USA; phone: (+1) (212) 633 3815; fax: (+1) (212) 633 3820; e-mail: t.decarlo@elsevier.com. **Japan:** The Advertising Department, Elsevier Science K.K., 9-15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5033; fax: (+81) (3) 5561 5047. **Europe and ROW:** Commercial Sales Department, Elsevier Science Ltd., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK; phone: (+44) 1865 843016; fax: (+44) 1865 843976; e-mail: media@elsevier.com

USA mailing notice: *European Journal of Pharmacology* (0014-2999) is published weekly by Elsevier Science B.V. (P.O. Box 211, 1000 AE Amsterdam, The Netherlands). Annual subscription price in the USA is US\$ 8402.00 (valid in North, Central and South America), including air speed delivery. Periodicals postage paid at Jamaica, NY 11431.

USA POSTMASTER: Send address changes to *European Journal of Pharmacology*, Publications Expediting, Inc., 200 Meacham Ave, Elmont, NY 11003.

AIRFREIGHT AND MAILING in the USA by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.