

Journal of Pharmaceutical and Biomedical Analysis

Editor-in-Chief

Professor Anthony F. Fell Pharmaceutical Chemistry, School of Pharmacy, University of Bradford, Bradford, West Yorkshire, BD7 1DP, UK

Editor (North America)

Professor Christopher M. Riley Center for Bioanalytical Research, University of Kansas, 2095 Constant Avenue, Lawrence, KS 66046-2535, USA

Associate Editors

G. P. R. Carr 103 Cambridge Road, Girton, Cambridge, CB3 0PN, UK

A. F. Casy School of Pharmacy and Pharmacology, University of Bath, Claverton Down, Bath, BA2 7AY, UK

A. G. Davidson Medicines Testing Laboratory, 36 York Place, Edinburgh, EH1 3HU, UK

M. B. Evans School of Natural Sciences, Hatfield Polytechnic, P.O. Box 109, College Lane, Hatfield, Herts, AL10 9AB, UK

T. M. Jefferies University of Bath, School of Pharmacy and Pharmacology, Claverton Down, Bath, BA2 7AY, UK

M. A. Kral Marion Merrell-Dow Pharmaceuticals, 2110 East Galbraith Road, Cincinnati, OH 45215-6300, USA

W. J. Lough Sunderland Polytechnic, School of Pharmaceutical and Chemical Sciences, Galen Building, Green Terrace, Sunderland, SR1 3PZ, UK

G. Smith 1 la The Garlands, Scarborough, North Yorkshire, YO11 2SU, UK

T. D. Wilson Product Development, R12, Bristol-Myers, 2400 W. Lloyd Expressway, Evansville, IN 47721, USA

Regional Advisory Editors

J. Crommen Institute of Pharmacy, University of Liège, Rue Fusch 5, B-4000 Liège, Belgium

S. Görög Chemical Works of Gedeon Richter Ltd, P.O. Box 27 H-1475, Budapest 10, Hungary

J. W. Munson The Upjohn Company, Kalamazoo, MI 49001, USA

T. Nambara Hatano Research Institute, Food & Drug Safety Center, 729-5 Ochiai, Hadano, Kanagawa 257, Japan

S. Pinzauti Department of Pharmaceutical Sciences, University of Florence, Via G. Capponi 9, 50121 Firenze, Italy

D. Westerlund University of Uppsala, Biomedical Centre, Department of Analytical Pharmaceutical Chemistry, Box 574, S-751 23 Uppsala, Sweden

Editorial Advisory Board

D. H. Calam (Hertfordshire) *Chairman*

D. W. Armstrong (Rolla, MO)

W. R. G. Baeyens (Ghent)

J. C. Berridge (Sandwich)

G. Blaschke (Münster)

H. Brittain (New Brunswick, NJ)

D. T. Burns (Belfast)

J. Caldwell (London)

G. D. Christian (Seattle, WA)

H. Chrystyn (Bradford)

B. J. Clark (Bradford)

V. A. Davankov (Moscow)

F. Erni (Basel)

H. Fabre (Montpellier)

C. Fenselau (Baltimore, MD)

E. Gelpi (Barcelona)

W. S. Hancock (South San Francisco, CA)

E. H. Hansen (Lyngby)

J. Hermansson (Stockholm)

J. Hoogmartens (Leuven)

J. F. K. Huber (Vienna)

K. Imai (Tokyo)

E. Jellum (Oslo)

K. Jinnō (Toyohashi)

J. W. Jorgenson (Chapel Hill, NC)

L. D. Kissinger (Kalamazoo, MI)

P. T. Kissinger (West Lafayette, IN)

I. S. Krull (Boston, MA)

W. Lindner (Graz)

H. Lingeman (Amsterdam)

A. Li Wan Po (Belfast)

K. Markides (Uppsala)

R. D. McDowall (Kent)

N. Meltzer (Nutley, NJ)

Y. Michotte (Brussels)

J. M. Midgley (Glasgow)

J. H. M. Miller (Strasbourg)

J. N. Miller (Loughborough)

Joint Founding Editor

D. E. Moore (Sydney, NSW)

E. Mutschler (Frankfurt/Main)

T. Nakagawa (Kyoto)

J. K. Nicholson (London)

M. Polásek (Hradec Králové)

M. L. Rabouhans (London)

K. Rasmussen (Oslo)

M. R. Smyth (Dublin)

J. T. Stewart (Athens, GA)

J. F. Stobaugh (Lawrence, KS)

B. Testa (Lausanne)

M. Valcárcel (Córdoba)

K. Valkó (London)

J. Vessman (Gothenburg)

A. Vigevani (Milan)

J. C. Wahlich (Ware)

I. W. Wainer (Montreal)

Wang Kaimin (Beijing)

S. G. Weber (Pittsburgh, PA)

I. D. Wilson (Macclesfield)

J. D. Winefordner (Gainesville, FL)

Production Editor

Paul Russell, Pergamon Press Ltd, Headington Hill Hall, Oxford OX3 0BW

Published monthly

Publishing, Subscription and Advertising Offices:

Pergamon Press Ltd, Headington Hill Hall, Oxford OX3 0BW (Tel: 0865 794141; Fax 0865 60285)

Annual Institutional Subscription Rate (1993): £455.00 (US \$728.00). Sterling prices are definitive. US dollar prices are quoted for convenience only, and are subject to exchange rate fluctuation. Personal subscription rate for those whose library subscribes at the regular rate (1993) available on request. Prices include postage and insurance and are subject to change without notice. Subscription rates for Japan are available on request. Payment must be made in advance. Subscription enquiries from customers in North America should be sent to Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA, and for the remainder of the world to Pergamon Press Ltd, Headington Hill Hall, Oxford OX3 0BW, UK (Tel: 0865 794141, Fax 0865 60285).

Second class postage paid at Rahway, NJ. Postmaster send address corrections to *Journal of Pharmaceutical and Biomedical Analysis*, c/o Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, USA.

Copyright © 1993 Pergamon Press Ltd

Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appear in this journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the publishers, the editorial board and editors, and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.