

# INTERNATIONAL JOURNAL OF PHARMACEUTICS

---

## *Editors in Chief*

P.F. D'ARCY (Belfast, U.K.), W.I. HIGUCHI (Salt Lake City, UT, U.S.A.)  
and T. NAGAI (Tokyo, Japan)  
(Associate Editor: J.H. RYTTING, Lawrence, KS, U.S.A.)

## *Editorial Board*

G. AMIDON (Ann Arbor, MI, U.S.A.)	I.H. PITMAN (Salisbury, Australia)
B.D. ANDERSON (Salt Lake City, UT, U.S.A.)	G. POSTE (Philadelphia, PA, U.S.A.)
G.S. BANKER (Minneapolis, MN, U.S.A.)	B.J. POULSEN (Palo Alto, CA, U.S.A.)
H. BOXENBAUM (Cincinnati, OH, U.S.A.)	A.J. REPTA (Lawrence, KS, U.S.A.)
H. BUNDGAARD (Copenhagen, Denmark)	J.R. ROBINSON (Madison, WI, U.S.A.)
J.T. CARSTENSEN (Madison, WI, U.S.A.)	T.J. ROSEMAN (Round Lake, IL, U.S.A.)
D.J.A. CROMMELIN (Utrecht, The Netherlands)	R.C. ROWE (Macclesfield, U.K.)
S.S. DAVIS (Nottingham, U.K.)	M.F. SAETTONE (Pisa, Italy)
A.T. FLORENCE (London, U.K.)	H. SEZAKI (Kyoto, Japan)
J.L. FOX (Salt Lake City, UT, U.S.A.)	J.E. SHAW (Palo Alto, CA, U.S.A.)
H.L. FUNG (Amherst, NY, U.S.A.)	E. SHEFTER (Boulder, CO, U.S.A.)
D. GANDERTON (London, U.K.)	D.D. SHEN (Seattle, WA, U.S.A.)
J. HADGRAFT (Cardiff, U.K.)	J. SJÖGREN (Mölnlycke, Sweden)
M. HANANO (Tokyo, Japan)	R.S. SUMMERS (Pretoria, South Africa)
E.N. HIESTAND (Kalamazoo, MI, U.S.A.)	B. TESTA (Lausanne, Switzerland)
N.F.H. HO (Kalamazoo, MI, U.S.A.)	D.J. TEMPLE (Cardiff, U.K.)
T.M. JONES (Beckenham, U.K.)	K. THOMA (Munich, F.R.G.)
K. KNUTSON (Salt Lake City, UT, U.S.A.)	R.F. TIMONEY (Dublin, Ireland)
G. LEVY (Amherst, NY, U.S.A.)	E. TOMLINSON (Alameda, CA, U.S.A.)
A. LI WAN PO (Belfast, U.K.)	J.L. VILA JATO (Santiago de Compostela, Spain)
J.A. MOLLICA (Wilmington, DE, U.S.A.)	G. ZOGRIFI (Madison, WI, U.S.A.)
J.M. NEWTON (London, U.K.)	



VOL. 81 (1992)

ELSEVIER SCIENCE PUBLISHERS B.V. –  
AMSTERDAM – LONDON – NEW YORK – TOKYO