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MOLECULAR PHARMACOLOGY

AN INTERNATIONAL JOURNAL

VOLUME 45

NUMBER 4

APRIL 1994

FOUNDED BY AVRAM GOLDSTEIN-1965

ASPET

A PUBLICATION OF THE AMERICAN SOCIETY FOR
PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS



Published by Williams & Wilkins

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Frequency: *Monthly:* Two volumes a year beginning in January and July. Printed on acid-free paper.

Correspondence concerning business matters should be addressed to: Customer Service, Subscriptions, Williams & Wilkins, 428 E. Preston Street, Baltimore, MD 21202-3993. Telephone 1-800-638-6423 from anywhere in the U.S. and Canada. From other countries, call 410-528-8555. Fax: 410-528-8596.

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Specific areas of interest include: identification and characterization of receptors for hormones, growth factors, neurotransmitters, toxins, and other drugs; analysis of receptor response pathways; drug effects on metabolic pathways, biosynthesis and degradation of macromolecules, and cellular regulatory mechanisms; analysis of drug-receptor and drug-enzyme interactions; effects of drugs on structure and properties of macromolecules and membranes; relationships between drug structure and activity; molecular mechanisms of drug metabolism; distribution and transport between biological compartments; molecular mechanisms of chemical mutagenesis, carcinogenesis, and teratogenesis; and molecular mechanisms of selective toxicity, drug allergy, and pharmacogenetics.

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