An important resource for everyone involved in research on the metabolism of drugs and chemicals

DRUG METABOLISM AND DISPOSITION

The Biological Fate of Chemicals

Editor: Vincent G. Zannoni, PhD, University of Michigan, Ann Arbor, Michigan

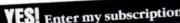
DRUG METABOLISM AND DISPOSITION publishes *in vitro* and *in vivo* experimental results that bring readers significant and original information on xenobiotic metabolism and disposition, including metabolism of all pharmacologic agents or drugs and environmental chemicals, reactants, and preservatives. All papers are refereed to ensure a high standard of publication. The areas covered are:

- · pharmacokinetics
- · pharmacodynamics
- genetic, nutritional, and hormonal factors affecting the biological fate of chemicals
- · toxicological consequences of xenobiotic metabolism

This journal should be a standard reference in all pharmacology and toxicology departments. It is also a valuable resource for all medicinal chemists involved in designing drugs and all biochemists involved with drug metabolism.

Bimonthly

Drug Metabolism and Disposition:



Avoid future rate increases and ensure uninterrupted service — enter your multiyear subscription today!	Payment options: ☐ Check enclosed ☐ VISA	☐ Bill me ☐ MasterCard	☐ American Express	
Drug Metabolism and Disposition (bimonthly)				
☐ Individual: \$70/yr ☐ Institutions: \$110/yr (Please add \$15.00 outside the U.S.)	card *			
□ New Subscription □ Renewal □ 3 yrs □ 2 yrs □ 1 yr	signature/P.O. #			
		, in US dollars only. R	ptions from outside the US and ates valid for orders received	
name	countries outside the US	Please allow 10 weeks for delivery of your first issue. Surface mail delivery to countries outside the US may take up to 16 weeks. Airmail rates available upon request.		
address	request			
city state zip				
7		Broadway Hous	e	

Williams & Wilkins

DMD 52002

P.O. Box 23291 Baltimore, Maryland 21203-9990 2-6 Fulham Broadway London SW6 1AA England

J0002S01

NOTICE TO CONTRIBUTORS

Complete instructions for the preparation of manuscripts appear in the first issue of each volume, or copies may be obtained from the editor. All manuscripts and correspondence concerning them should be sent to the editor:

Dr. Eva King Killam
Department of Pharmacology
School of Medicine
University of California
Davis, California 95616
(916) 752-7701

INFORMATION TO SUBSCRIBERS

THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS is issued monthly. Four volumes are published each year. Each volume contains three numbers.

Correspondence concerning business matters should be addressed to Williams & Wilkins, 428 East Preston St., Baltimore, MD 21202-3993 U.S.A.

Annual Subscription Rates—U. S. A. AND POSSESSIONS: personal, \$160.00; institutional, \$260.00; single copy, \$18.00. FOREIGN: personal, \$215.00; institutional, \$315.00; single copy, \$22.00. JAPAN: personal, \$337.00; institutional, \$437.00 (includes air freight). (Prices subject to change.) Institutional (multiple reader) rate applies to libraries, schools, hospitals, clinics, group practices, and federal, commercial, and private institutions and organizations. Foreign subscribers who wish to have issues sent by airmail may inquire of the publisher for the additional cost.

Japanese Yen price is available from our sole agent: USACO Corporation, 13-12 Shimbashi 1-Chome, Minato-Ku, Tokyo 105, Japan, telephone 03-502-6471.

Change of address: Publisher must be notified 60 days in advance. Journals undeliverable because of incorrect address will be destroyed. Duplicates can be obtained (if available) from the publisher at the regular price of single issues.

New subscriptions and renewals are entered to begin with the January or July issue.

To avoid a break in your series, subscriptions should be renewed promptly. The publisher cannot guarantee to supply back issues on belated renewals.

Reprints of individual articles are available only from authors.

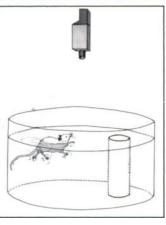
Microfilm. For availability, inquire of Williams & Wilkins.

WILLIAMS & WILKINS BALTIMORE, MD 21202-3993 U.S.A.

VIDEO TRACKERS MEASURE ANIMAL ACTIVITY

Videomex-V tracks black or white images Videomex-X tracks multiple colors Can work as interfaces to IBM-PC computers





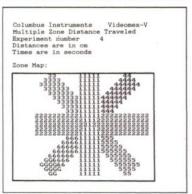
VIDEOMEX-V SOFTWARE FOR MORRIS WATER MAZE

This software plots patterns of movement, measures distance traveled and time taken by the animal to reach the goal platform in a Morris Water Maze.



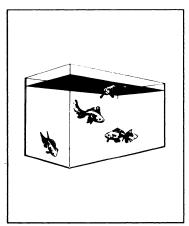
VIDEOMEX-V VERTICAL ACTIVITY SETUP

Now, with two (2) television cameras, the Videomex-V can measure both Horizontal and Vertical activity.



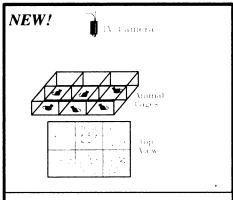
MAZES

The Videomex-V is ideal for use with mazes. It prints pattern of movement, time spent in each maze branch (area), number of visits, etc. The user can design the shape of the maze and zones using a computer mouse or Videomex-V controls.



WATER STUDIES

The Videomex-V is ideal for measuring fish activity. Observations can be done either from a top view, side view or both the side and top views of an aquarium. It can track a single fish or measure the general level of activity of a school of fish.



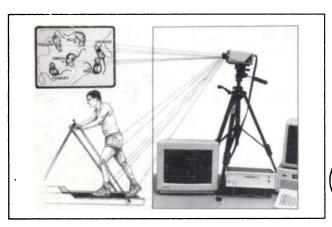
MULTIPLE ANIMALS IN MULTIPLE CAGES

Now multiple animals in multiple cages can be measured according to patterns of movement, distances traveled and time each animal spends in each zone of their own cage. Each animal cage can be partitioned into multiple zones. This is a very economical solution for multiple cage studies.



BACKGROUND MASKING & SMALL OBJECTS FILTER

The Videomex-V provides the perfect method to measure primate activity behind cage bars by being able to "mask out" areas not of interest to the study. The Videomex-V tracks the animal and measures distance traveled even with solid cage bars between the animal and television camera. New! Small objects can be eliminated making Videomex-V insensitive to animal feces, tracking only the largest object in the field.



VIDEOMEX-X MULTI-COLOR SYSTEM

The Videomex-X Multi-Color System can track up to 6 separate color markers on either animals or humans. It digitizes the image and calculates the X-Y coordinates of color marked objects 60 times per second and transfers the data in real time to an IBM-PC/AT's hard disk. It's ideal for tracking multiple animal activity when animals share the same space. Software is available for tracking patterns of movement, social contact, distance traveled, time spent in different zones, etc. One exceptional application for this is in human biomechanics.

1990 Lab Animal Research Equipment catalog now available.
Please contact us for more information at:
COLUMBUS INSTRUMENTS INTERNATIONAL CORP.

P.O. Box 44049 Columbus, Ohio 43204 USA PH:(614) 488-6176 FAX: (614) 276-0529 TLX: 246514