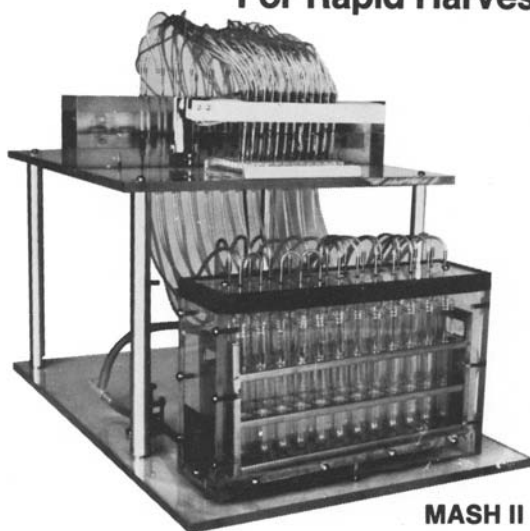


THE JOURNAL OF IMMUNOLOGY[®]

Official Journal of The American Association of Immunologists □□□

Microbiological Associates Presents The MASH II & III

MULTIPLE AUTOMATED SAMPLE HARVESTER
For Rapid Harvesting of Labelled Cells



MASH II



MASH III

USES

- Assay of Mixed Lymphocyte Cultures (Histocompatibility Studies)
- In Vitro Lymphocyte Stimulation (Mitogen Studies)
- Drug Sensitivity Testing
- Reactivity to Tumor Cells

ADVANTAGES

- Expedites Processing of Cultures
- Allows Greater Number of Tests per Sample
- Facilitates Replicate Sampling

The Multiple Automated Sample Harvester (MASH) is designed for the rapid harvesting of supernatant fluids of mixed lymphocyte cultures using tritiated thymidine. The unit is designed to permit use of Microtiter plates which require 0.2 ml per culture in contrast to other procedures using larger volumes. Thus, it is possible to prepare a greater number of cultures per sample, improve accuracy between replicate samples and improve efficiency in preparing samples for scintillation spectrophotometry.

COMPARISONS BETWEEN MASH II AND MASH III

FUNCTION	MASH II	MASH III
Wash Fluid Capability	One Wash Fluid	Four Wash Fluids
Delivery system of Wash Fluids	Gravity Flow	Pressurized
Filter Strip Positioning	Manual Clamping of Filter Strip	Air Pressure Clamping of Filter Strip
Aspirator Bar	Manually Moved From Row to Row; Microtiter Plate is Fixed	Aspirator Bar is Fixed and Microtiter Plate Moves

Please write if you would like additional information, or, you may call us Toll Free 800 638-0998. Maryland customers call (301) 654-3400.

 **Microbiological Associates**

Building 100 Biggs Ford Road
Walkersville, Maryland 21793

A DIVISION OF **Whittaker**
CORPORATION

THE JOURNAL OF IMMUNOLOGY®

INFORMATION FOR CONTRIBUTORS

Manuscripts should be sent to:

Dr. Joseph D. Feldman
Department of Immunopathology
Scripps Clinic and Research Foundation
La Jolla, California 92037

If and when the manuscript is published, it will become the sole property of The Journal and all copyright will be taken out in the name of The Williams & Wilkins Company, and all rights in copyright reserved to The Williams & Wilkins Company.

Contributions may be short or long; the length should be commensurate with the scientific content. The chief criteria for acceptance are quality, originality, and clarity.

INSTRUCTIONS FOR PREPARATION OF MANUSCRIPT

The *original and two (2) copies* of the manuscript, including references, legends, figures and illustrations, must be submitted. The text and all other material, e.g., footnotes, references, and acknowledgments, must be typed in double space (at least $\frac{3}{16}$ -inch or 5-mm spacing from the bottom of one line to the top of a capital of a succeeding line) on one side of $8\frac{1}{2}$ inch x 11 inch paper of good quality. The two (2) copies may be legible carbon or mimeographed copies or photocopies.

A short title to be used as a running head (not more than 50 characters) should be typed alone on the first page. Type the complete title on the second page, and the authors' full names (first name, middle initial(s), surname) and affiliations on the third page. *The format of The Journal must be followed in typing the text and the list of references.* References will be numbered as they appear in the text and will be listed in the format:

1. Kindt, T. J., and W. J. Mandy. 1972. Recombination of genes coding for constant and variable regions of immunoglobulin heavy chains. *J. Immunol.* 108:1110.

Only papers that have been accepted for publication should be listed in the references (i.e., articles that are already paginated or in press). Manuscripts in preparation, unpublished observations, and personal communications should be referred to as such in text; completed manuscripts that have been submitted for publication may be cited as a footnote to the text. If such information is in press when the author receives his galley proofs he may make appropriate citations in the text at that time.

All material to be set in a type size different from that of the text, such as tables, case histories, quotations, formulas, legends for figures and illustrations, footnotes, and references *must be typed on separate pages*. If abbreviations are to be used in the paper, the abbrevia-

tions and their meanings should be typed double spaced, in one paragraph, on a separate sheet. Legends should not be attached to or written on figures or illustrations and must be typed double spaced. The position of tables and figures in the text may be indicated on the page margin.

List all components of culture medium used in experiments so that sufficient data to reproduce reported results are available. This information may be supplied in the Abbreviations footnote, in a table listing all components, by referring to a published article containing the information, or by identifying the commercial source which supplies the specific medium if components are listed by the supplier.

Illustrations and Photomicrographs. Photographs of figures and other illustrative material *must be on glossy paper (in triplicate)*; they must be clearly marked on the reverse side with the number, author's name, and orientation (top) and should be unmounted. Graphs should be in black ink on unlined or bluelined paper. If graphs exceed 9 x 12 inches in size, they must be accompanied by glossy photographic reproductions within that size.

For photomicrographs a better grade of paper may be used at additional cost, up to \$100.00 for a single page. Estimates can be obtained when the manuscript is submitted for publication. Estimates for color photomicrographs are also available.

Communications. Short papers, at the author's request, may be printed in the Communications section of The Journal. These papers should not exceed two (2) printed pages in length, including summary, references, tables and figures. The text of a full printed page contains about 1000 words. If accepted, their publication will be accelerated, usually within two (2) months of acceptance. For this reason, proofs are not sent to the authors, but rather to the Editor. Suitability for publication will be judged on the basis of timeliness, novelty, and importance by the usual refereeing procedure.

MANUSCRIPTS THAT DO NOT CONFORM TO THESE SPECIFICATIONS MAY NOT BE ACCEPTED, AT THE EDITOR'S DISCRETION.

Page Charges. Authors will be charged \$30.00 for each printed page of an article or a Communication. All manuscripts, if accepted, will be published only after commitment by the author(s) or financial officer of their institution to pay a charge of \$30.00 per published page. *No exceptions can be made.*

Reprints. Reprints must be ordered in advance. A form showing the cost of reprints, together with an order slip, is sent with the galley proof. No more than 1000 reprints of any article may be purchased. The invoice for reprints will include the charges for pages.

Continued from page 3

VIRAL AND MICROBIAL IMMUNOLOGY

- 1104 **Virus-Enhanced Modulation of Cell Surface Antigens: Effect on Immune Lytic Susceptibility.** *Phillip J. Catanzaro, Walter E. Brandt, Wayne R. Hogrefe, Stanley M. Phillips, and Franklin H. Top, Jr.*
- 1127 **Hypergammaglobulinemia in Chickens Congenitally Infected with an Avian Leukosis Virus.** *Louis F. Qualtiere and Paul Meyers*
- 1250 **Xenogenization of Rat Erythroid Cells by Lymphatic Leukemia Virus: Its Role in Induction of Auto-immune Hemolytic Anemia.** *Noboru Kuzumaki, Tetsuya Moriuchi, Takao Kodama, and Hiroshi Kobayashi*
- 1392 **Large-Scale Isolation of Dane Particles from Plasma Containing Hepatitis B Antigen and Demonstration of a Circular Double-Stranded DNA Molecule Extruding Directly from Their Cores.** *Takashi Takahashi, Susumu Nakagawa, Takashi Hashimoto, Kazuaki Takahashi, Mitsunobu Imai, Yuzo Miyakawa, and Makoto Mayumi*
- 1398 **Primary in Vitro Sensitization of Murine Lymphocytes against Isogeneic and Allogeneic Cells Transformed by Simian Virus 40.** *Takashi Maki and Michael L. Howe*

COMMUNICATIONS

- 1402 **Autologous Human Cellular Cytotoxicity Induced by Mitogenic and Nonmitogenic Lectins.** *Richard P. MacDermott, Geoffrey S. Nash, John G. Saint, Eloise A. Clark, Alexander G. Zaras, and David Boldt*
- 1404 **Characterization of Antibodies to the Structural Polypeptides of HB_sAG: Evidence for Subtype-Specific Determinants.** *Jon W. M. Gold, J. Wai-Kuo Shih, Robert H. Purcell, and John L. Gerin*
- 1406 **Partial Separation of Human Blood Leukocytes by Density Gradient Electrophoresis: Different Mobilities of Lymphocytes with IgG, Those with IgM and IgD, T Lymphocytes, and Monocytes.** *Kenneth A. Ault, Ann L. Griffith, Christos D. Platsoucas, and Nicholas Catsimpoolas*
- 1409 **Announcements**
- 1410 **Erratum**
- 1411 **Author Index**

THE JOURNAL OF IMMUNOLOGY®

Information for Subscribers

Published monthly, beginning January, 1929. (From 1916 to 1925, and in 1928 Volumes I-X inclusive, and Vol. XV published bi-monthly.)

Annual Subscription Rates—U.S.A. AND POSSESSIONS: personal, \$80.00; institutional, \$100.00; single copy, \$9.00. FOREIGN: personal, \$85.00; institutional, \$105.00; single copy, \$9.50. Institutional (multiple reader) rate applies to libraries, schools, hospitals, clinics, group practices, and federal, commercial, and private institutions and organizations. A special rate of \$27.00 (\$32.00 foreign) is available to Students and Post-Doctoral Fellows. Certification forms may be obtained from the office of the American Association of Immunologists in Bethesda. The subscriptions of members of the American Association of Immunologists are included in the membership dues and are handled by the Association's Treasurer, Dr. Henry Metzger, American Association of Immunologists, 9650 Rockville Pike, Bethesda, Md. 20014. All other subscriptions should be sent to the publishers.

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.

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

Microfilm. For availability, inquire of The Williams & Wilkins Company.

Reprints of individual articles are available only from authors.

THE WILLIAMS & WILKINS COMPANY

BALTIMORE, MARYLAND 21202 U. S. A.

Announcing publication
of *the* indispensable laboratory manual —

MANUAL OF CLINICAL IMMUNOLOGY

Edited by Noel R. Rose and Herman Friedman

A joint effort by members of the
American Society for Microbiology and
the American Association of Immunologists

This definitive and much needed new book is a companion volume to the highly acclaimed *Manual of Clinical Microbiology*, 2nd Edition. It has been written to provide a current, comprehensive, and definitive source of information about the best methods for conducting specific immunological tests in laboratory immunology. It will be invaluable for:

laboratory directors and technologists responsible for the performance of immunological tests in the clinical laboratory - graduate students - medical students - medical technology students - post-doctoral trainees - residents - fellows - clinicians

In addition, it will be an essential addition to the working library of every clinical chemistry laboratory, blood bank, and hematology laboratory. It also belongs in laboratories involved in the diagnosis of autoimmune and collagen diseases, surgical laboratories doing tissue and organ transplantation, and laboratories involved with cancer immunology.

It deals exclusively with the applications of immunology to the detection and analysis of a

wide variety of diseases, including, but not limited to, those induced by microorganisms. The clinical interpretations of each procedure are detailed, and pitfalls and problems in performing the various analyses are discussed.

The contents, by section, are:

- Tests for humoral components of the immunological response
- Tests for cellular components of the immunological response
- Immunoassays
- Bacterial, mycotic, and parasitic immunology
- Viral, rickettsial, and chlamydial immunology
- Immunohematology
- Laboratory examination of patients with allergic and immunodeficiency diseases
- Autoimmune diseases
- Tumor immunology
- Transplantation immunology
- Licensure and certification programs in clinical immunology laboratories

Publication date: 16 August, 1976. 923 pages, fully illustrated.

Available in two bindings:

Cloth, at \$20.00 (ISBN: 0-914826-09-3) and durable, plastic-coated, flexible binding, ideal for bench or classroom use, at \$16.00 (ISBN: 0-914826-10-7).

Special Offer to Members of the American Association of Immunologists

Note: Members of AAI may purchase this book at the special member discount prices of:

Clothbound: \$12.00 + \$1.00 handling charge

Flexible: \$10.00 + \$1.00 handling charge

Member purchases are for personal use only. Payment *must* accompany member orders. AAI members should send their orders, accompanied by remittance in U.S. Dollars, to the American Association of Immunologists, 9650 Rockville Pike, Bethesda, MD 20014.

AMERICAN SOCIETY FOR MICROBIOLOGY
Publications Office
1913 I Street, N.W., Washington, D.C. 20006