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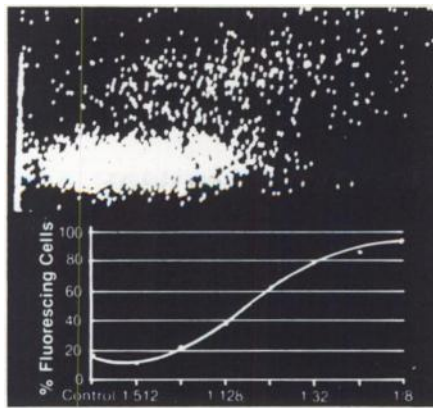
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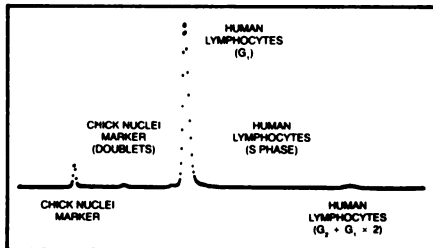
No other commercially available cell sorter and analyzer approaches the power, precision and versatility of the Ortho Systems 30/50. The instrument is offered in two basic configurations: System 30—a high resolution, 21 parameter analytical flow cytometer, and System 50—which adds cell sorting capabilities to the System 30 flow cytometer. Both feature dual lasers as standard equipment for increased analytical power.

System Components

To appreciate the far-reaching capabilities of these Ortho instruments, consider that the System 50 combines: two lasers—a .8 milliwatt helium-neon for ultra high precision scatter measurements and a 5 watt argon type for fluorescence measurements (optional argon-ion, and krypton-ion lasers with U.V. capability are available); four detectors—two of the photo-multiplier type for right angle scatter, and fluorescent emission detection (S-20 response, 185 nm–850 nm), and two solid state sensors for axial light loss and narrow angle forward scatter: a sophisticated optical system incorporating fiber optics: a multiplexed multichannel analyzer, with C.R.T. display: the signal processor unit: and an advanced cell sorter module. Additionally, the Model 2150 computerized 8 parameter data handler/sorter controller is available as an option* The 2150 System features



1. Upper: Direct immunofluorescence test (cytogram). Lymphocytes from CLL patient incubated with FITC labelled anti-human IgG. Lower: Titration of V-25 Leukemia cells from C-57 black mice different dilutions of FITC conjugated rat radiation leukemia virus antibody.



2. Histogram of human lymphocytes utilizing a chick nuclei marker for standardization and stained for D.N.A. with Propidium Iodide. C.V. = 1.65% (Human Lymphocytes)

simultaneous data acquisition, and real time processing while sorting is in progress.

System Capabilities

Together, these modules allow the System 50 to provide and analyze morphological information—a significant first for a flow cytometric instrument. With four detectors and the ability to display pulse height, pulse area or pulse width analysis for each—a total of 21 distinct measurement parameters can be studied.

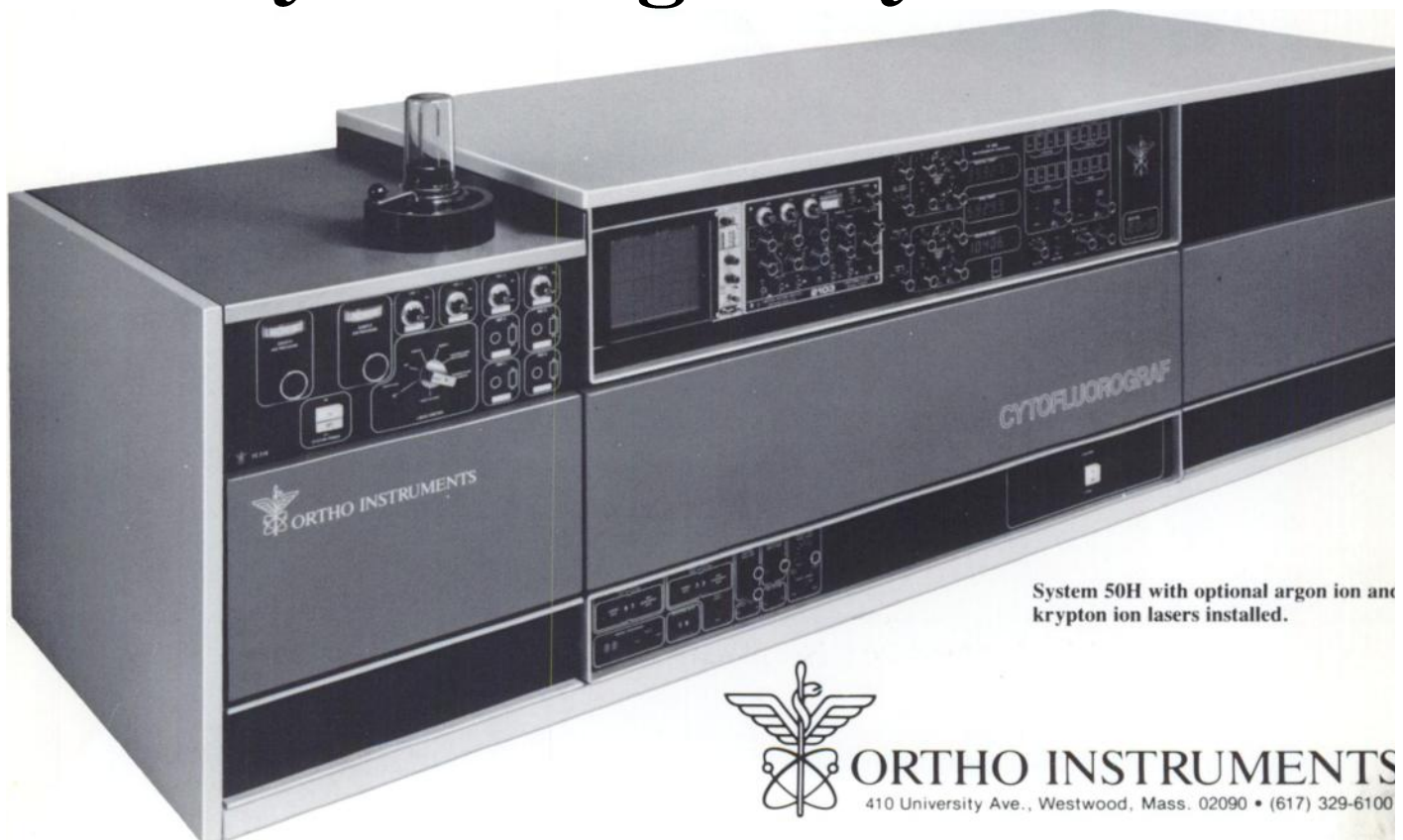
The System 50 also features: two bi-dimensional regions of interest, dual histogram multi-channel analyzer with cytogram mode, super-sil quartz optics with which the cells are analyzed and easy sample entry.

In order to provide customers with complete support, Ortho maintains an Applications Laboratory that is available for confirmation and consultation services. Additionally, an international network of service technicians is ready to aid customers should calibration or repairs ever be required.

Remarkable Results

The histograms and cytograms displayed were produced by the System 50. Evaluate them. And consider the difficulty of deriving this data by any other means. The capabilities of this unique Ortho instrument will speak for themselves.

State-of-the-art cell sorting and analysis from Ortho The Cytofluorograf® Systems 30/50



System 50H with optional argon ion and krypton ion lasers installed.



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National Cancer Institute Monograph 52

September 1979

**ASPECTS OF CANCER
RESEARCH 1971-1978:**

Editorials from the
*Journal of the National Cancer Institute*¹

John C. Bailar III, Editor in Chief

The National Cancer Institute has recently published a monograph in which are compiled the 74 editorials featured in the *Journal of the National Cancer Institute* since 1971. The series was originally conceived by Dr. Mearl Stanton, then the Editor in Chief, and the members of his Editorial Board as a means of highlighting current work in the cancer field and, also, of providing a forum for certain reflections about the cancer problem that might not otherwise come to the attention of the community of cancer researchers. The editorials, categorized first as either human or laboratory studies, have been arranged by date of original publication within sixteen more narrowly defined categories. The following fields of investigation are covered within "Human Studies": epidemiology, chemical and physical carcinogenesis, drugs and hormones, carcinogenesis and microbiological agents, lung cancer, large bowel cancer, and treatment. Under "Laboratory Studies" are included topics such as the nature of cancer, cancer biology, chemical and physical carcinogenesis, immunobiology, immunodiagnosis of cancer, immunotherapy, tumor virology, and pathological aspects of cancer. It should be noted that these editorials have been updated, wherever possible, by the attachment of a short addendum; these additions to the original publications are extremely valuable in that they cite the latest work of other investigators, rectify omissions or errors, and, in particular, offer new and interesting insights. According to Dr. Bailar, the primary purpose of the volume is "to facilitate reference to a wide spectrum of broad views, or a broad spectrum of wide views, that have been cited in many other publications and, for the most part, continue to be of lively interest." The editorials are also of value as "documentation of our rapid progress over a very short time; as a composite record, by leaders in the field, of the reasoning behind many newly developed concepts; and as material for a history of the war against cancer."

¹Please send orders to Customer Service Section, Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Title and stock number (0170042-00140-4) should be included. Payment is required in advance; checks or money orders must be made payable to Superintendent of Documents. Price: \$13.00 in the United States, Canada, or Mexico; add 25% for overseas mailing.
