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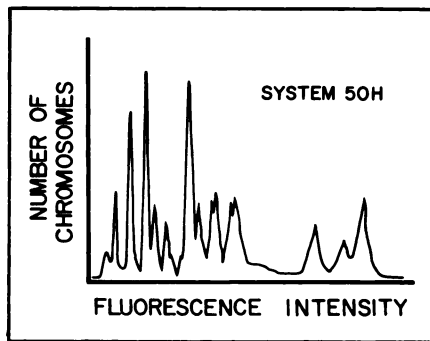
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No other commercially available cell sorter and analyzer approaches the power, precision and versatility of the Ortho Systems 30/50. The instrument is offered in two basic configurations: System 30—a high resolution, 21 parameter analytical flow cytometer, 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.

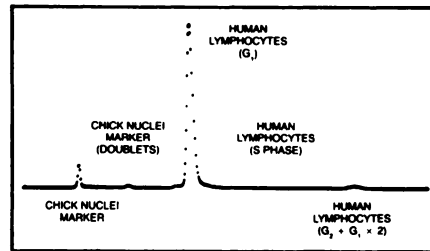
#### System Components

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



2. Histogram of CHO chromosomes stained for D.N.A. Ethidium Bromide/Chromomycin A<sub>3</sub>.

Cytofluorograph System 50H Laser-250mw @ 457nm. Red Fluorescence



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.



For additional information contact your local representative or write: Ortho Diagnostic Systems Inc., 410 University Ave., Westwood, Mass. 02090. (617) 329-6100



Ortho Diagnostic Systems Inc.

**The American Cancer Society thanks you.  
Your employees thank you.  
Their families thank you.**

You've become a life saver. Literally. For installing our Employee Education Program. For letting us supply free films, exhibits, speakers, pamphlets, posters, and articles for your company publications. For accepting our help in arranging "action" programs for your employees...for detection of colorectal cancer, instructions in breast cancer examination, for detection of cervical cancer via the Pap test. For simply understanding that if cancer is detected in its early stages, chances for cure are greatly increased. Thank you.

Hundreds of companies now have an American Cancer Society Employee Education Program. If yours isn't one of them, call us.



**American Cancer Society  
2,000,000 people fighting cancer.**