

AUTHOR INDEX

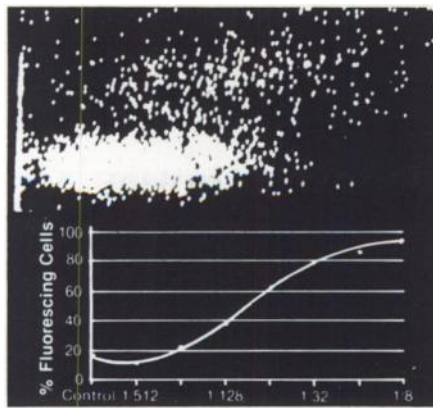
August 1980

- Anderson, L. W., 2938
 Armbrrecht, H. J., 2839
 Au, J. L-S., 2814
 Auda, S. P., 2829
- Bakir, N. A., 2726
 Barrett, S. F., 2736
 Baskin, F., 2884
 Benedict, W. F., 2796
 Bergerat, J-P., 2846
 Besbris, H. J., 2670
 Bom-van Noorloos, A. A., 2890
 Börzsönyi, M., 2925
 Boutwell, R. K., 2653
 Bradley, M. O., 2719
- Cantor, K. P., 2645
 Cantrell, J. S., 2774
 Carpentieri, U., 2714
 Carrell, H. L., 2774
 Cerutti, P. A., 2904
 Chang, R. L., 2876
 Christensen, T., 2915
 Coccia, J. B., 2820
 Cohen, A. M., 2670
 Conney, A. H., 2876
 Costa, M., 2688
 Croisy-Delcey, M., 2876
 Cysyk, R. L., 2938
- Davis, B. B., 2839
 Doniger, J., 2736
 Dousa, T. P., 2860
 Drewinko, B., 2846
 Dyott, T., 2774
- Ehrke, M. J., 2748
 Elias, E. G., 2829
 Erlichman, C., 2938
- Faanes, R. B., 2790
 Farber, A. J., 2774
 Fitzgerald, D. J., 2935
 Fladmoe, A. V., 2824
 Fraumeni, J. F., Jr., 2645
 Freeman, H. J., 2661
- Glennay, J. R., Jr., 2853
 Glusker, J. P., 2774
 Goldin, A., 2762
 Green, D., 2762
 Griffin, M. J., 2768
 Grotzinger, K. R., 2743
- Haggard, M. E., 2714
 Heidepriem, P. M., 2666
 Hochalter, J. B., 2824
 Hokanson, J., 2846
 Howard, S. M. H., 2695
 Hozumi, M., 2919
- Ide, F., 2898
 Ip, C., 2785
 Ishikawa, T., 2898
 Ittah, Y., 2876
- Jerina, D. M., 2876
- Jones, P. A., 2796
- Kamataki, T., 2910
 Karle, J. M., 2938
 Kato, R., 2910
 Kaulfus, P. J., 2853
 Kemp, R. G., 2808
 Kim, Y. S., 2661
 Kohn, K. W., 2719
 Kraft, P. L., 2740
 Krishnaraj, R., 2808
 Kulkarni, M. S., 2666
 Kumagai, N., 2928
- Lam, L. K. T., 2820, 2824
 Lannin, D. R., 2756
 Layard, M. W., 2719
 Lenhart, G., 2802
 Levin, W., 2876
 Lu, L-J. W., 2701
 Lui, M. S., 2869
- Martin, D. S., 2730
 Mattammal, M. B., 2839
 McIntyre, B. W., 2853
 McKhann, C. F., 2756
 Melief, C. J. M., 2890
 Mihich, E., 2748
 Minguell, J. J., 2714
 Moan, J., 2915
 Mollenhauer, H. H., 2688
 Morimoto, M., 2762
 Morizane, T., 2928
 Morrison, G., 2802
 Müller, R. E., 2941
 Murray, A. W., 2935
- Nádasdi, L., 2925
 Nayak, R., 2730
 Noda, K-i, 2768
- Okada, G., 2895
 Olah, E., 2869
 Ozols, R. F., 2743
- Perchellet, J-P., 2653
 Pintér, A., 2925
 Politzer, I. R., 2943
 Politzer, P., 2943
 Prashad, N., 2884
- Rahman, A., 2762
 Randerath, K., 2701
 Razek, A., 2835
 Robbins, J. H., 2736
 Roblin, R., 2706
 Rogers, A. E., 2802
 Roller, P., 2925
 Rosenberg, R., 2884
 Rossi, M., 2774
 Russo, I. H., 2677
 Russo, J., 2677
 Ryan, D. E., 2876
- Saat, Y. A., 2808
 Sadée, W., 2814
 Sawyer, R. C., 2730
- Schein, P. S., 2762
 Scott, R. E., 2860
 Seybold, P. G., 2943
 Sharkey, N. A., 2719
 Sheard, B. E., 2941
 Sheppard, J. R., 2695
 Skipper, P. L., 2740
 Sparkman, D., 2884
 Spiegelman, S., 2730
 Spiller, G. A., 2661
 Stoffi, R. L., 2730
 Stragand, J. J., 2846
 Sugiura, M., 2910
 Surján, A., 2925
- Takayama, S., 2898
 Tannenbaum, S. R., 2740
 Teller, M. N., 2790
 Theologides, A., 2695
 Thomas, P. E., 2876
 Thuning, C. A., 2726
 Tomazic, V., 2748
 Tomida, M., 2919
 Török, G., 2925
 Traish, A., 2941
 Tsuchimoto, K., 2928
 Tsuchiya, M., 2928
 Tsui-Collins, A. L., 2756
 Tsukada, K., 2895
 Tzeng, D. Y., 2869
- Ulrich, C., 2884
- Valeriote, F., 2835
 van Beek, A. A. M., 2890
 Vietti, T., 2835
 Vuthiganon, C., 2829
- Waksvik, H., 2915
 Walborg, E. F., Jr., 2853
 Wang, T-c. V., 2904
 Warren, J., 2726
 Watanabe, T., 2928
 Watanabe, Y., 2895
 Wattenberg, L. W., 2820, 2824
 Weber, G., 2869
 Wheatley, W. L., 2796
 White, R. A., 2846
 Willson, J. K. V., 2743
 Wischmeyer, B., 2884
 Wood, A. W., 2876
 Wortzman, M. S., 2670
 Wotiz, H. H., 2941
- Yagi, H., 2876
 Yamamoto, Y., 2919
 Yamazoe, Y., 2910
 Yang, C. S., 2633
 Yielding, K. L., 2666
 Young, P. L., 2706
 Young, R. C., 2743
 Yu, S., 2756
- Zenser, T. V., 2839

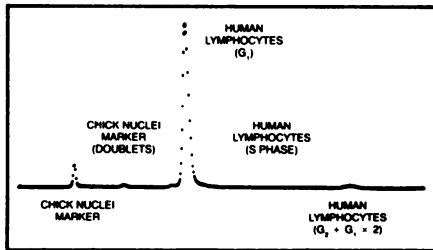
No other commercially available cell sorter and analyzer approaches the power, precision and versatility of the Ortho Systems 30/50. The instrument is offered in two basic configurations: System 30—a high resolution, 21 parameter analytical flow cytometer, and System 50—which adds cell sorting capabilities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



ORTHO INSTRUMENTS

410 University Ave., Westwood, Mass. 02090 • (617) 329-6100

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.
