

October 1, 1989

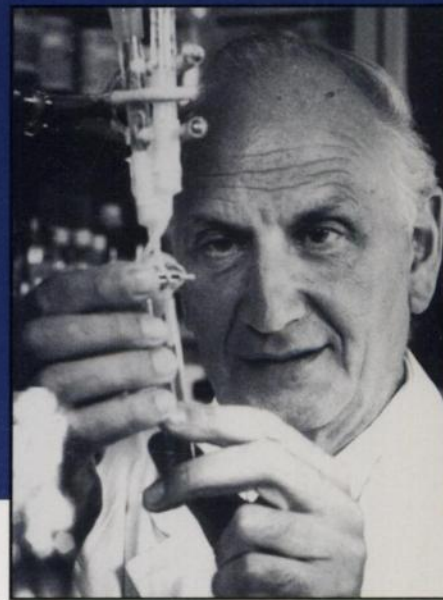
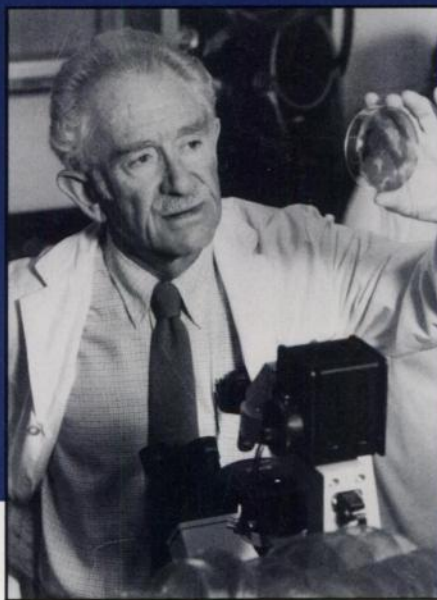
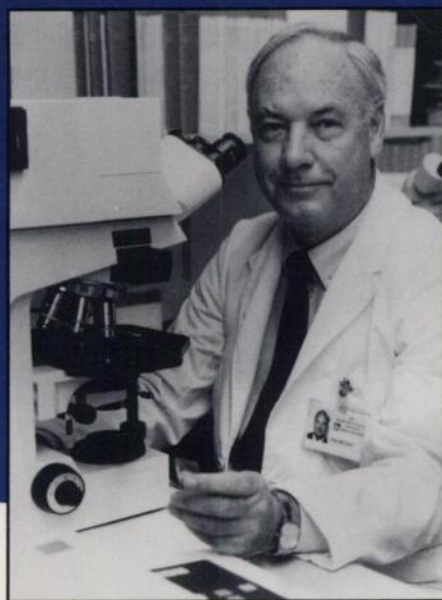
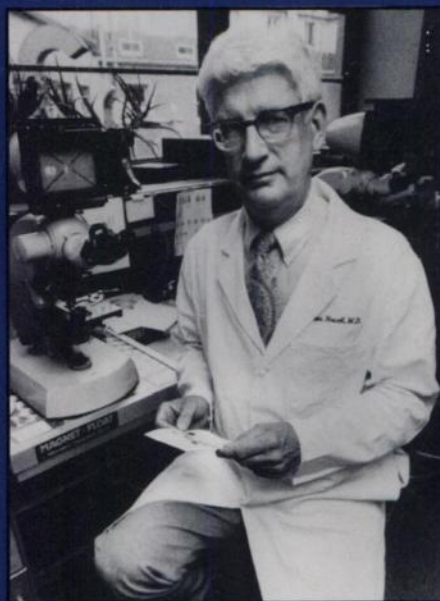
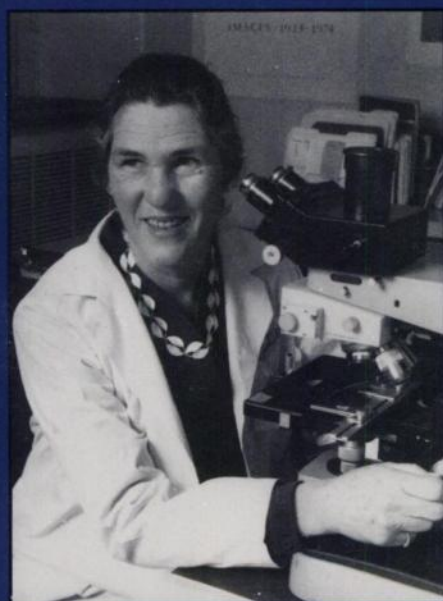


Cancer Research

OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH

VOLUME 49 • NO. 19 • PP 5239-5488

ISSN 0008-5472 • CNREA 8



GENERAL MOTORS CANCER RESEARCH FOUNDATION MEETING

"1989 VIEWS OF CANCER RESEARCH"

November 9, 1989
Rockefeller University

Caspary Auditorium
1230 York Avenue
New York, New York 10021

The Annual Scientific Meeting of the General Motors Cancer Research Foundation will be held on November 9, 1989, at Rockefeller University in New York City. Fifteen outstanding scientists will present lectures on important developments in the areas of cancer research, diagnosis, and treatment. In addition, they will assess the progress achieved so far and the challenges that remain in the battle against cancer. The General Motors Cancer Research Foundation was established in 1978 by Roger B. Smith, GM's Chairman of the Board and Chief Executive Officer. In the past eleven years, the Foundation has honored 41 of the world's preeminent cancer scientists with its prestigious annual awards. (See cover and cover legend for this year's awardees and for more on the GM prizes.) Through its awards program, publications, visiting professorships, and sponsorship of conferences, the General Motors Cancer Research Foundation is making a significant contribution to the worldwide effort against this deadly disease. The Foundation has recently announced International Biomedical Journalism Prizes for excellence in reporting about cancer.

PROGRAM

Time	Subject	Speaker
9:00-9:10 a.m.	Introductory Remarks	Joseph G. Fortner, M.D.
9:10-9:30 a.m.	Progress in Cancer: Past, Present and Future	Samuel Broder, M.D.
9:30-9:40 a.m.	Discussion	
9:40-10:00 a.m.	SESSION I—Chairman: John D. Minna, M.D. Differentiation and Homing of Lymphocytes in Mouse-Man	Irving Weissman, M.D.
10:00-10:10 a.m.	Discussion	
10:10-10:30 a.m.	Micrometastatic Tumor Cells: Detection, Phenotype and Clinical Significance	Gert Riethmüller, M.D.
10:30-10:40 a.m.	Discussion	
10:40-10:55 a.m.	COFFEE BREAK	
10:55-11:15 a.m.	SESSION II—Chairman: Jerzy Einhorn, M.D. Potential of Radiolabelled Monoclonal Antibodies for Cancer Diagnosis and Treat- ment	Jean Pierre Mach, Ph.D.
11:15-11:25 a.m.	Discussion	
11:25-11:45 a.m.	Advances in Cancer Diagnosis Through Positron Emission Tomography	Steven M. Larson, M.D.
11:45-11:55 a.m.	Discussion	
12:00-1:00 p.m.	LUNCH	
1:00-1:20 a.m.	SESSION III—Chairman: David Skinner, M.D. The Contribution of Organ Transplantation to Cancer Biology and Treatment	Thomas E. Staryl, M.D.
1:20-1:30 p.m.	Discussion	
1:30-1:50 p.m.	Clinical Results of GMCSF	George Morstyn, Ph.D., FRACP
1:50-2:00 p.m.	Discussion	
2:00-2:20 p.m.	SESSION IV—Chairman: Eric Stanbridge, Ph.D. Cancer-Prone Families	Fred P. Li, M.D.
2:20-2:30 p.m.	Discussion	
2:30-2:50 p.m.	Molecular Genetics of Cancer Progression	Webster Cavaneë, Ph.D.
2:50-3:00 p.m.	Discussion	
3:00-3:20 p.m.	SESSION V—Chairman: Phillip Sharp, Ph.D. The Human Genome Project and Its Impact on Medicine	C. Thomas Caskey, M.D.
3:20-3:30 p.m.	Discussion	
3:30-3:50 p.m.	CDC2 and Cell Cycle Control	David Beach, Ph.D.
3:50-4:00 p.m.	Discussion	
4:00-4:15 p.m.	TEA BREAK	
4:15-4:35 p.m.	SESSION VI—Chairman: Calum Muir, M.D. Diet and Cancer	Dimitri Trichopoulos, M.D.
4:35-4:45 p.m.	Discussion	
4:45-5:05 p.m.	Endogenous Nitrosamines— Relevance to Human Cancer	Helmut Bartsch, Ph.D.
5:05-5:15 p.m.	Discussion	
5:15-5:35 p.m.	Hormones and Cancer	Malcolm Pike, Ph.D.
5:35-5:45 p.m.	Discussion	
	Closing Remarks	

Attendance open to medical and scientific communities. Please register beforehand by calling the General Motors Cancer Research Foundation: (212) 418-6384.

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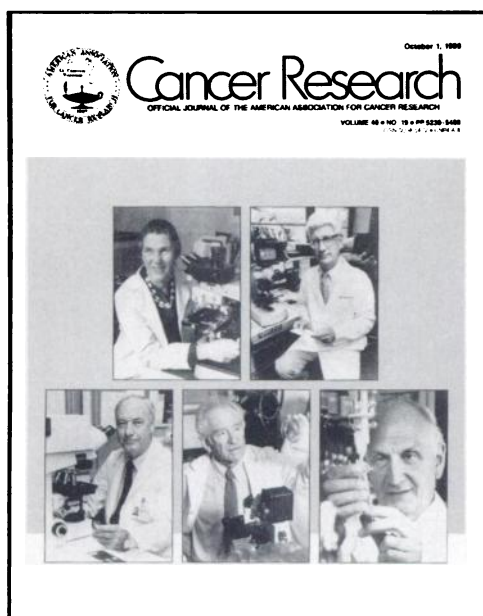
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COVER LEGEND



The journal congratulates the five winners of the prestigious awards of the General Motors Cancer Research Foundation for 1989. The awardees, all members of the American Association for Cancer Research, were announced on June 13th by Dr. Joseph G. Fortner, President of the G. M. Foundation.

The Charles F. Kettering Prize for outstanding contributions to the diagnosis and treatment of cancer went to Mortimer M. Elkind, Ph.D., University Distinguished Professor and Chairman, Department of Radiology and Radiation Biology, Colorado State University. He was cited for pioneering research in radiation biology and for original discoveries in radiation damage of DNA. His work has had major impact on radiation therapy and in helping to define permissible human exposures to X- and γ -radiation and to radiation from nuclear power plants and other sources. He is currently focusing on mechanisms of radiation-induced neoplastic transformation.

Winners of the Charles S. Mott Prize for outstanding contributions to understanding the causes of and ultimately preventing cancer are Janet D. Rowley, M.D., Professor of Hematology and Oncology, Department of Medicine, University of Chicago, and Pe-

ter C. Nowell, M.D., Professor of Pathology and Laboratory Medicine, University of Pennsylvania. Nowell's landmark discoveries of chromosomal abnormalities paved the way for much of the recent remarkable advances in the cytogenetics of neoplasia. His early contributions to techniques of chromosomal analysis helped to open up this field. His discovery, with David Hungerford, of the "Philadelphia chromosome" and its association with chronic granulocytic leukemia was the first of over 100 chromosome defects now known to be indicative of various human cancers. Janet Rowley showed that the Philadelphia chromosome (and since then, many other chromosomal alterations) is caused by translocation of end segments from one specific chromosome to another. Gene translocations and their role in various leukemias and lymphomas are currently being pursued vigorously by both Peter Nowell (working with Carlo Croce) and Janet Rowley.

Sharing the Alfred P. Sloan Prize for outstanding basic science contributions to cancer research are Donald Metcalf, M.D., Research Professor of Cancer Biology at the Walter and Eliza Hall Institute of Medical Research, Victoria, Australia, and Leo Sachs, Ph.D., Otto Meyerhof Professor of Biology and Head, Department of Genetics, Weizmann Institute of Science, Rehovot, Israel. Both were cited for discovering factors that regulate growth, production, and maturation of the vast array of leukocytes involved in the immune response. Conducted independently, their work has resulted in the discovery of factors that regulate leukocyte production, four of which are colony-stimulating factors. Further knowledge of these factors and their receptors has great potential for clarifying the complex, sequential process of blood cell maturation, thereby also leading to the possibility of reversal of the malignant transformation.

Each prize comprises a monetary award of \$100,000 and a grant of \$30,000 to support a conference or workshop of the awardee's choice. This is the eleventh year of the GM awards. The photographs and background information were provided by the General Motors Foundation. *Top left*, Janet Rowley; *top right*, Peter C. Nowell; *bottom, left to right*, Donald Metcalf, Mortimer Elkind, and Leo Sachs.

Sidney Weinhouse