

June 15, 1992

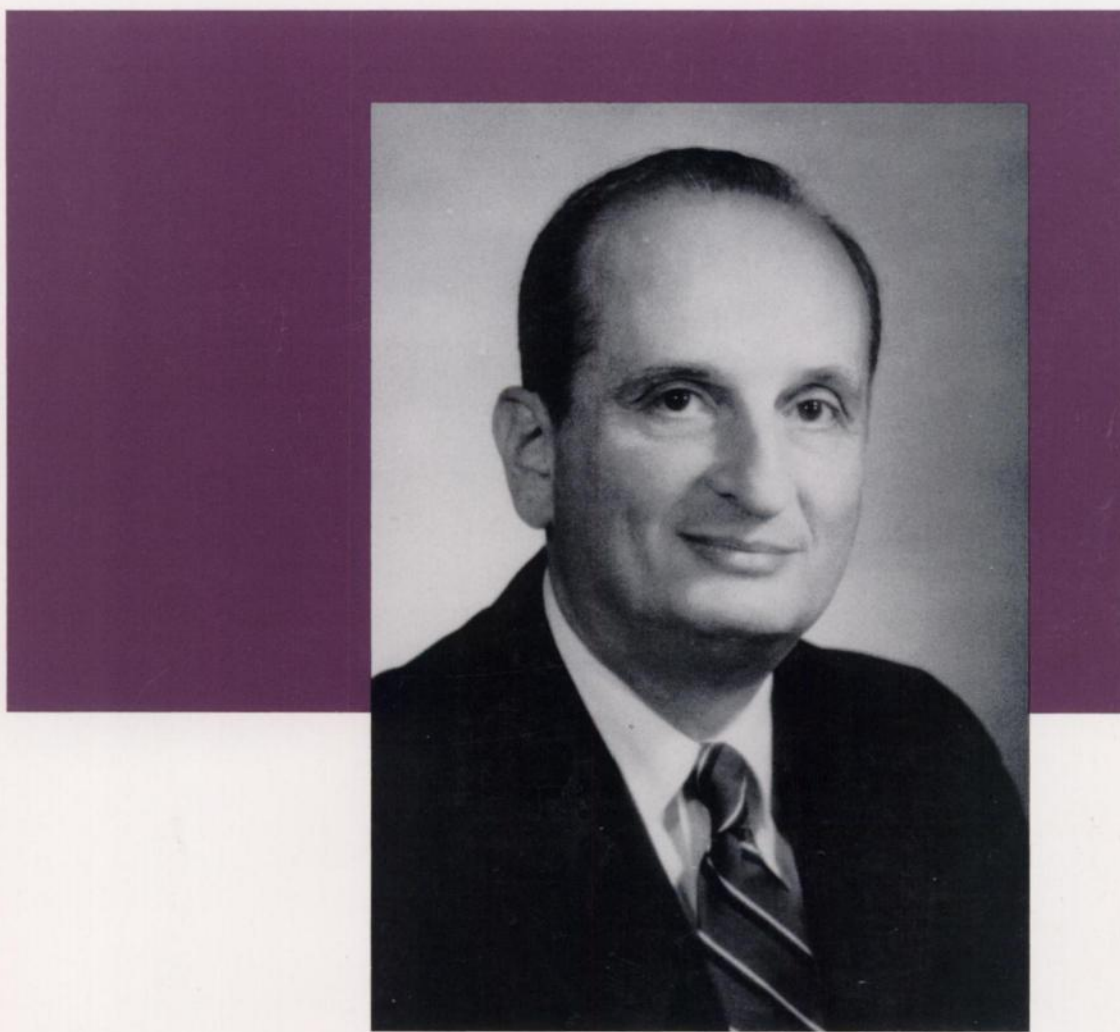


# Cancer Research

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AACR SPECIAL CONFERENCE IN CANCER RESEARCH

## Genetics of Cancer



November 4-8, 1992

Marriott Hilton Head Resort, Hilton Head, South Carolina

**Supported by a Generous Grant from  
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American Association for Cancer Research  
Public Ledger Building  
620 Chestnut Street, Suite 816  
Philadelphia, PA 19106-3483

215-440-9300 215-440-9313 (FAX)

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**Application Deadline: August 10, 1992**

AACR SPECIAL CONFERENCE IN CANCER RESEARCH  
**Molecular and Biochemical Methods in  
Cancer Epidemiology and Prevention -  
The Path Between the Laboratory and the Population**

September 23-26, 1992  
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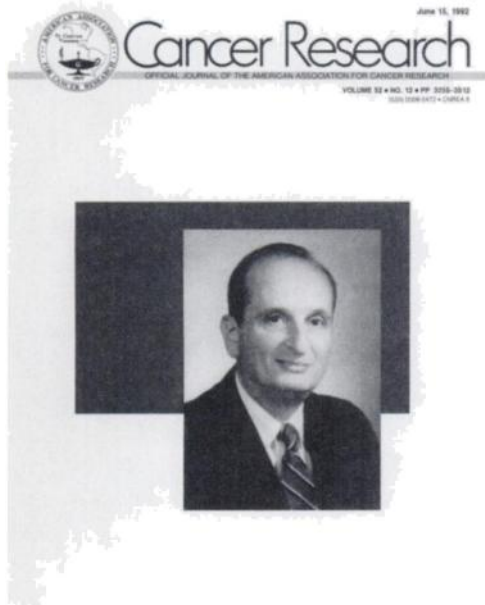
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# COVER LEGEND



*Cancer Research* is pleased to salute Judah Folkman, M.D., the 1992 winner of the Wolf Award in medicine and the 3M Life Sciences Award from the Federation of American Societies for Experimental Biology. These prestigious prizes recognize a distinguished career marked by many contributions to medical science, extending from his student days to the present time.

While a student at Ohio State University, where he received the B.A. *cum laude* in 1953, he coauthored a paper with Dr. Robert Zollinger which described a new method of hepatectomy for liver cancer. As a student at Harvard Medical School, he worked in the laboratory of Dr. Robert Gross where he developed the first atrioventricular implantable pacemaker, for which he received the Boylston Medical Prize, the Soma Weiss Award, and the Borden Undergraduate Award. From 1957 to 1965, Dr. Folkman completed his internship and residency at Massachusetts General Hospital where he was Chief Resident in Surgery during 1964–1965; he served as a lieutenant in the United States Navy from 1960–1962. At the Naval Medical Center in Bethesda, MD, he first reported, with David Long, the use of silicone polymers for sustained release of drugs, which led to the development of Norplant, a now widely used implantable contraceptive. It was here that he began studies on tumor growth in isolated perfused organs, which led to his most significant discoveries of the dependency on angiogenesis for tumor growth and originated the field of angiogenesis research.

Dr. Folkman joined Harvard's Surgical Service in 1965 as Instructor and Associate Director of the Sears Surgical Laboratory of Boston City Hospital, and in 1967 he was promoted to Professor of Surgery at Harvard and to Surgeon-in-Chief at Children's Hospital Medical Center, becoming the Julia Dyckman Andrus Professor of

Pediatric Surgery in 1968. Before assuming full-time Chairmanship of the Surgery Department at Children's Hospital, he spent 6 months as Chief Resident in pediatric surgery under former Surgeon General C. Everett Koop at Philadelphia Children's Hospital. In 1981, after 14 years at Children's Hospital, he was appointed Professor of Anatomy and Cellular Biology at Harvard Medical School, when he gave up the Chairmanship of Surgery to devote his full time to research.

His discoveries on the mechanisms of angiogenesis opened up a field now pursued worldwide. His laboratory reported the first angiogenic molecule, the first angiogenesis inhibitor, and the angiogenesis dependency for tumor growth and developed almost all of the methodology for this field. In his laboratory, Michael Klagsbrun and Yuen Shing purified basic fibroblast growth factor, the first of seven angiogenic molecules which have been sequenced and cloned in other laboratories. He predicted the existence of natural angiogenesis inhibitors and discovered several families of angiostatic substances. The possibility of anti-angiogenic therapy is now being explored in several clinical trials.

In addition to the Wolf and FASEB awards, Dr. Folkman has received, among others, the Lila Gruber Award from the American Academy of Dermatology, 1974; the Simon Shubitz Cancer Prize from the University of Chicago, 1982; the Lucy Wortham James Award from the Society of Surgical Oncology, 1985; the G. H. A. Clowes Award from the AACR, 1985; the Sheen Award from the American College of Surgeons, 1989; election to the National Academy of Sciences and to its Institute of Medicine, 1990; the Gairdner Foundation International Award, 1991; and the Christopher Columbus Award from the National Institutes of Health, 1992.

Dr. Folkman is the author of 187 papers, among which the following summarize his major accomplishments: N. Weidner, J. Semple, W. Welch, and J. Folkman. Tumor angiogenesis correlates with metastasis in invasive breast carcinoma. *N. Engl. J. Med.*, 324: 1–8, 1991; J. Folkman, Antiangiogenesis. *In: V. T. Devita, Jr., S. Hellman, and S. A. Rosenberg (eds.), Biologic Therapy of Cancer*, pp. 743–753. Philadelphia: J. B. Lippincott and Company, 1991; J. Folkman and D. Hanaman. Expression of the angiogenic phenotype during development of murine and human cancer. *In: J. Burgee, T. Curran, E. Harlow, and F. McCormick (eds.), Origins of Human Cancer: A Comprehensive Review*, pp. 803–814. Plainview, NY: Cold Spring Harbor Laboratory, 1991; J. Folkman. Angiogenesis—retrospect and outlook. *In: R. Steiner, P. Weisz, and R. Langer (eds.), Angiogenesis Key Principles—Science—Technology—Medicine*, pp. 4–13. Basel: Birkhauser Verlag, 1992; J. Folkman. Tumor angiogenesis. *In: J. F. Holland, E. Frei, R. C. Bast, D. W. Kufe, D. L. Morton, and R. R. Weichselbaum (eds.), Cancer Medicine*, Ed. 3. Melbourne, PA: Lea & Febiger, in press, 1992.

Sidney Weinhouse