



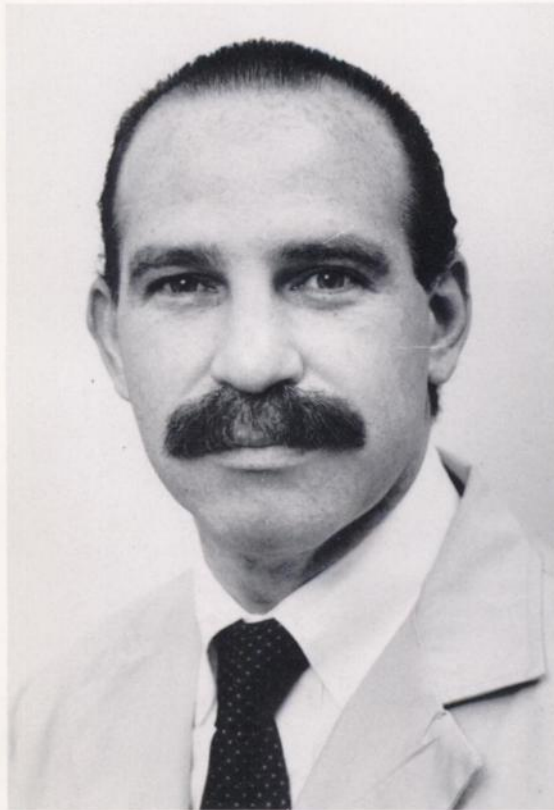
October 15, 1991

# Cancer Research

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Northwestern University  
Chicago



Children's  
Memorial Hospital  
Chicago



The Rehabilitation  
Institute of Chicago  
Chicago



Northwestern University  
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Northwestern University  
Evanston

50  
Years of Publication

**ASSISTANT OR ASSOCIATE PROFESSOR  
AUTOLOGOUS BONE MARROW  
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Childrens Hospital Los Angeles (CHLA) and the University of Southern California (USC) School of Medicine, Department of Pediatrics are seeking a BC/BE Pediatric Hematologist-Oncologist to be **Assistant Clinical Director, Autologous Bone Marrow Transplantation Program (Solid Tumors)**. The candidate must have a minimum of 3 years training/experience in bone marrow transplantation and should have the ability to perform clinical or laboratory research in autologous transplantation and/or biotherapy (e.g., differentiation inducers, cytokines, monoclonal antibodies, hematopoiesis). This individual's effort will be 45% patient care and teaching (ABMT and Hematology-Oncology), 45% research, 10% administration. Send curriculum vitae and list of three references to **Dr. Robert C. Seeger, Division of Hematology-Oncology, Childrens Hospital Los Angeles, 4650 Sunset Boulevard, Los Angeles, CA 90027**. CHLA and USC are equal opportunity/affirmative action employers. Women and minorities are encouraged to apply.

## Antibodies For Cancer Research

Antibody reagents for the identification of proteins in the study of cancer.

- **c-erbB-2 Oncogene Antibodies**
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- **Retinoblastoma (RB) Gene Product Monoclonal Antibody**
- **TAG-72 Monoclonal Antibody (B72.3)**



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FOR RESEARCH USE ONLY. Not for use in diagnostic procedures.

Cancer Research

Dr. A. Smith

"In Vivo and in Vitro Analysis of..."

Filename: Smith.doc

Hardware, Operating system, Software

## Cancer Research accepts submissions on disk to facilitate production.

Acceptable word processing packages are listed in *Guidelines for Submitting Disks to AACR Publications*, found in the back of every issue of *Cancer Research*. Tables and illustrations will be set from hard copy.

To submit your paper on disk, simply send a completed *Disk Submission Form* (found on the reverse of the *Guidelines for Submitting Disks to AACR Publications*) with your disk, labeled as shown above, to the AACR Publications Department. Be sure that the disk file is the most recent version of your paper and matches the hard copy printout.

*For review purposes, 4 hard copy printouts of the manuscript and 4 copies of the original illustrations must accompany all submissions.*



## The Division of Cancer Etiology

## National Cancer Institute

Announces To the Scientific Community The Availability of the Following Resources/Services For Cancer Related Research As Noted Below:

### Biological Resources

■ Cell Culture Identification Service. Using Isozyme Analysis, Immunofluorescence and Karyotypic Analysis (Chromosome Banding).

**Contact:** Dr. Ward Peterson  
Children's Hospital of Michigan  
3901 Beaubien Boulevard  
Detroit, MI 48201  
(313) 745-5570

Citing Contract #N01-CP-85645

**Cost:** \$375/Analysis

■ Goat Antisera Against: Avian, Bovine, Feline, Murine, and Primate Intact Viruses and Viral Proteins; Antibodies to Immunoglobulins for a number of species. Preimmune Sera available for some Virus Antisera.

**Contact:** Alice K. Robison, Ph.D.  
BCB Repository  
Quality Biotech, Inc.  
1667 Davis Street  
Camden, NJ 08104  
(609) 966-8000  
(609) 342-8078 FAX  
Citing Contract #N01-CP-15665

**Cost:** \$75.00/5 ml. (Antisera)  
25.00/5 ml. (Preimmune Sera)  
65.00/100 ml. (Immunoglobulins)  
(Frozen Material)

■ Viruses: Avian, Feline, Murine, and Primate Viruses Produced in vivo and in vitro.

**Contact:** Alice K. Robison, Ph.D.  
BCB Repository  
Quality Biotech, Inc.  
1667 Davis Street  
Camden, NJ 08104  
(609) 966-8000  
(609) 342-8078 FAX  
Citing Contract #N01-CP-15665

**Cost:** Inquire

■ Monoclonal Antibodies are available with specificities for synthetic peptides representing the amino acid sequences of the left end, right end and active site of the oncogene products of avian and mammalian retroviruses. Blocking peptides are also available, as are a limited number of cell lines producing the monoclonal antibodies.

**Contact:** Alice K. Robison, Ph.D.  
BCB Repository  
Quality Biotech, Inc.  
1667 Davis Street  
Camden, NJ 08104  
(609) 966-8000  
(609) 342-8078 FAX  
Citing Contract #N01-CP-15665

**Cost:** Peptides — \$25.00/mg.  
Ascites Fluid — 45.00/ml.  
Cell Culture — 100.00/culture.  
(Plus Shipping and Handling)

■ Human sera from donors with: Malignancies (including nasopharyngeal carcinoma), Non-Malignant Disorders, and Normal Individuals

**Contact:** Coordinator for Research Resources  
Biological Carcinogenesis Branch,  
DCE, NCI, NIH  
Executive Plaza North, Room 540  
Bethesda, MD 20892

**Cost:** Shipping and handling charges only.

■ The Division of Cancer Etiology's Registry of Experimental Cancers announces the availability of 16 different study sets containing histologic slides of rodent tumors. The study sets, with accompanying syllabi, illustrate a variety of spontaneous and induced tumors, chiefly of rats, mice, and mastomys. Each set is available to cancer investigators worldwide, without charge, for up to two months. Requests or inquiries should be addressed to:

**Contact:** Registry of Experimental Cancers  
National Cancer Institute  
Building 41, Room D311  
NIH, Bethesda, MD 20892  
USA

### Chemical Resources

■ Analytical resources for the collection, separation, and elucidation of the components of cigarette smoke and cigarette smoke condensates: A contractor with experience in the development of analytical methods for the determination of constituents of cigarette smoke and of specialty instrumentation for inhalation toxicology is available to assist qualified investigators with particular interest in studies on human and animal model exposure to environmental and side-stream smoke. A large inventory of reference experimental cigarettes, Standard Low Yield Reference Cigarettes, and an extensive chemical data base on smoke and smoke condensate components is available.

**Contact:** Harold E. Seifried, Ph.D.  
Chemical and Physical  
Carcinogenesis Branch DCE, NCI  
Executive Plaza North, Room 700  
Bethesda, MD 20892  
(301) 496-5471

**Cost:** Inquire

■ Chemical Carcinogen Reference Standard Repository: Reference quantities of over 750 compounds are available. The newest additions are dilute aqueous standards of PAH deoxyguanosine-3'-monophosphates for Randerath <sup>32</sup>P post labelling assays. Other classes of available compounds are: fecal-pentaenes, food mutagens, polynuclear aromatic hydrocarbons (PAH), PAH metabolites, radiolabeled PAH metabolites, nitrogen heterocycles, nitrosamines/nitrosamides, aromatic amines, aromatic amine metabolites, azo/azoxy aromatics, inorganics, nitroaromatics, pesticides, pharmaceuticals, natural products, dyes, dioxins and chlorinated aliphatics. Data sheets provided with the compounds include chemical and physical properties, analytical data, hazards, storage, and handling information. Catalog available upon request.

**Contact:** Manager, NCI Chemical  
Carcinogen Repository  
Midwest Research Institute  
425 Volker Boulevard  
Kansas City, MO 64110  
(816) 753-7600, Ext. 523

**Cost:** Subject to chemical class code and quantity (see catalog) plus handling and shipping charges.

## Epidemiology Resources

■ The Tumor Virus Epidemiology Repository (TVÉR) contains sera and other biological samples from more than 13,000 patients and controls obtained in 12 different countries. The TVÉR was established primarily to support collaborative research on the role of Epstein-Barr virus (EBV) in Burkitt's lymphoma, nasopharyngeal carcinoma, and related diseases.

The TVÉR is able to adjust its collection to facilitate the development of new collaborative studies. In addition, some samples are available for reagents and independent research. The most extensive collections are serum samples from patients with Burkitt's lymphoma (sera from more than 1,000 patients).

**Contact:** Dr. Paul H. Levine  
Environmental Epidemiology  
Branch, DCE, NCI, NIH  
Executive Plaza North, Room 434  
Bethesda, MD 20892  
(301) 496-8115

**Cost:** Free to Collaborating Investigators;  
Others: Dependent on Processing  
Time

■ The National Cancer Institute has available the Animal Morbidity/Mortality Survey of Colleges of Veterinary Medicine in North America (also known as the Veterinary Medical Data Program). This unique registry of veterinary medical information represents patient data on animals seen at collaborating veterinary teaching facilities; 3 million hospital episodes have been abstracted and computerized in a standardized record format. Disease information is coded using the scheme of the Standard Nomenclature of Veterinary Disease and Operations. The computer tapes will be made available upon request.

**Contact:** Dr. Howard M. Hayes  
Environmental Epidemiology Branch  
Epidemiology and Biostatistics  
Program  
Division of Cancer Etiology  
Executive Plaza North, Room 443  
Bethesda, MD 20892  
(301) 496-1691

**Cost:** Inquire

■ The National Institute of Allergy and Infectious Diseases and the National Cancer Institute have developed a repository of biological specimens from homosexual men. The specimens were collected through contracts with five major U.S. universities for studies of the natural history of acquired immune deficiency syndrome (AIDS).

Information about applying for collaborative use of these specimens is available from the NIAID Project Officer or the NCI Co-Project Officer.

**Contact:** Chief, Epidemiology Branch, AIDS  
Program  
National Institute of Allergy and  
Infectious Diseases  
CDC Bldg., Room 240  
National Institutes of Health  
Bethesda, MD 20892

or to

Chief  
Extramural Programs Branch, EBP,  
Division of Cancer Etiology, NCI  
Executive Plaza North, Room 535  
Bethesda, MD 20892

■ Human fibroblast cultures from individuals at high risk of cancer, members of cancer-prone families, and normal family members are available. Collection is historical with unknown viability. Catalog unavailable. Information requests should include potential use of cultures.

**Contact:** Chief, Family Studies Section, EEB,  
DCE, NCI, NIH  
Executive Plaza North, Room 439  
Bethesda, MD 20892  
(301) 496-4375

**Cost:** Free to collaborating investigators  
Others: \$70/cell line.

■ The Epidemiology and Biostatistics Program of the National Cancer Institute has developed the Observed versus Expected (O/E) software system which calculates: (1) the number of observed events (e.g. cancer cases or deaths) in a study group at risk; (2) the number of expected events in a study group based on the rate of occurrence in some standard or referent population; (3) the ratio of observed to expected events; and (4) the significance of this ratio. The system is user friendly and capable of executing a series of calculations by different variables such as age, time group, date of exposure, age at date of exposure, duration of exposure, year relative to entry and cause of event. The O/E System provides tables by race, sex and user defined variables, allows user defined latency intervals and accepts standard or user prepared rates. O/E is written in COBOL and is exportable to most mainframes.

**Contact:** Ruth Wolfson  
Epidemiology and Biostatistics  
Program  
Division of Cancer Etiology, NCI  
Executive Plaza North, Room 531  
Bethesda, MD 20892  
(301) 496-1606

**Cost:** Free to investigators interested in  
epidemiologic research.

## Environmental Cancer

■ NCI's Chemical Carcinogenesis Research Information System (CCRIS) is available online through the National Library of Medicine's Toxicology Data Network (TOXNET) system. Through an interagency agreement between NCI and NLM, the CCRIS database has been built and will be maintained and updated as one of TOXNET's sponsored databases in the broad areas of chemistry, toxicology, and hazardous waste information. The CCRIS database contains evaluated data and information on carcinogens, mutagens, tumor promoters, cocarcinogens, metabolites of carcinogens, and carcinogen inhibitors derived from published review articles, ongoing current awareness survey of primary literature, NCI/NTP's short- and long-term bioassay studies, the IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Man, and special studies and reports.

**Contact:** Dr. Thomas P. Cameron  
Office of the Director  
Division of Cancer Etiology  
National Cancer Institute  
Executive Plaza North, Room 712  
Bethesda, MD 20892  
(301) 496-1625

**Cost:** Inquire

■ The Special Assistant for Environmental Cancer, Office of the Director, announces the availability of a limited number of copies of the following publications, which have been prepared under contract to NCI:  
Survey of Compounds Which Have Been Tested for Carcinogenic Activity, PHS-149, 1987-1988

And Proceedings of the Fourth NCI/EPA/NIOSH Collaborative Workshop: Progress on Joint Environmental and Occupational Cancer Studies, 1986

**Contact:** Ms. I.C. Blackwood  
Office of the Director  
Division of Cancer Etiology  
National Cancer Institute  
Executive Plaza North, Room 712  
Bethesda, MD 20892  
(301) 496-1625

**Cost:** Free to investigators interested in  
environmental cancer.

# Concepts and Molecular Mechanisms of Multistage Carcinogenesis

First Joint Conference of the American Association for Cancer Research  
and the European Association for Cancer Research  
immediately following EACR-XI in Genoa

*Additional Support from the Istituto Nazionale per la Ricerca sul Cancro*

Grand Hotel Miramare, Santa Margherita, Italy  
November 6-9, 1991

## SCIENTIFIC PROGRAM COMMITTEE

### AACR

**I. BERNARD WEINSTEIN** / New York, USA (Co-Chairperson)  
**ARTHUR P. GROLLMAN** / Stony Brook, USA  
**HAROLD L. MOSES** / Nashville, USA

### EACR

**PETER BANNASCH** / Heidelberg, Germany (Co-Chairperson)  
**ALLAN BALMAIN** / Glasgow, Scotland  
**JAN SVOBODA** / Prague, Czechoslovakia

## LOCAL ORGANIZING COMMITTEE

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**MARIA COLNAGHI** / Milan, Italy  
**MARGARET FOTI** / Philadelphia, USA  
**CLAUDIO LOMBARDO** / Genoa, Italy  
**MARCEL ROBERFROID** / Brussels, Belgium

## SCIENTIFIC PROGRAM

### Welcoming Remarks

**LEONARDO SANTI** / Genoa, Italy

### Opening Address

**PETER BANNASCH** / Heidelberg, Germany

### Epidemiological and Experimental Evidence for the Multistage Process

**HENRY C. PITOT** / Madison, USA  
**ERICH HECKER** / Heidelberg, Germany  
**FRANCO MERLETTI** / Turin, Italy  
**FRIEDRICH MARKS** / Heidelberg, Germany  
**FRANCIS V. CHISARI** / La Jolla, USA

### APPLICATION FORMS (North and South America)

American Association for Cancer Research  
Public Ledger Building  
620 Chestnut Street, Suite 816  
Philadelphia, PA 19106, USA  
215-440-9300 215-440-9313 (FAX)

### (Outside the Americas)

Italiana Congressi  
Via Bensa 2  
16124 Genoa, ITALY  
10-202541 10-299382 (FAX)

### DNA Replication, Damage, and Repair

**MARCEL ROBERFROID** / Brussels, Belgium  
**DEZIDER GRUNBERGER** / New York, USA  
**HARTMUT M. RABES** / Munich, Germany  
**ARTHUR P. GROLLMAN** / Stony Brook, USA  
**PHILIP C. HANAWALT** / Stanford, USA  
**TOMAS LINDAHL** / Herts, England  
**SARASWATI SUKUMAR** / San Diego, USA

### Multiple Genetic Changes during Tumor Development

**LANCE A. LIOTTA** / Bethesda, USA  
**JAN SVOBODA** / Prague, Czechoslovakia  
**ALLAN BALMAIN** / Glasgow, Scotland  
**ANTON BERNS** / Amsterdam, The Netherlands  
**TERRY H. RABBITS** / Cambridge, England  
**WEBSTER K. CAVENEE** / Montreal, Canada

### Genetic Aspects of Tumor Suppression

**GEORGE KLEIN** / Stockholm, Sweden  
**ERIC J. STANBRIDGE** / Irvine, USA  
**MARY WEISS** / Paris, France  
**DAVID P. LANE** / Herts, England  
**NICHOLAS HASTIE** / Edinburgh, Scotland  
**EDWARD HARLOW** / Charlestown, USA

### Growth Factors and Signal Transduction

**HAROLD L. MOSES** / Nashville, USA  
**GIUSEPPE DELLA PORTA** / Milan, Italy  
**CHRISTOPHER J. MARSHALL** / London, England  
**CARL-HENRIK HELDIN** / Uppsala, Sweden  
**RIK DERYNCK** / South San Francisco, USA

### Overview and Future Directions

**I. BERNARD WEINSTEIN** / New York, USA



*The AACR and EACR invite the international  
community of cancer researchers to submit  
applications for this exciting conference.*

*A limited number of travel grants for graduate and medical students,  
postdoctoral fellows, and physicians in training will be available.*



The American Association for Cancer Research  
announces

## **AACR Special Conferences in Cancer Research**

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### **NEGATIVE CONTROLS ON CELL GROWTH AND THEIR BREAKDOWN DURING THE PATHOGENESIS OF CANCER**

October 20–24, 1991, Chatham, Massachusetts  
Organizers: Robert A. Weinberg, Arnold J. Levine,  
David M. Livingston, Eric J. Stanbridge

### **CONCEPTS AND MOLECULAR MECHANISMS OF MULTISTAGE CARCINOGENESIS**

November 6–9, 1991, Santa Margherita, Italy  
Organizers: I. Bernard Weinstein, Peter Bannasch,  
Arthur P. Grollman, Harold L. Moses, Allan Balmain, Jan Svoboda

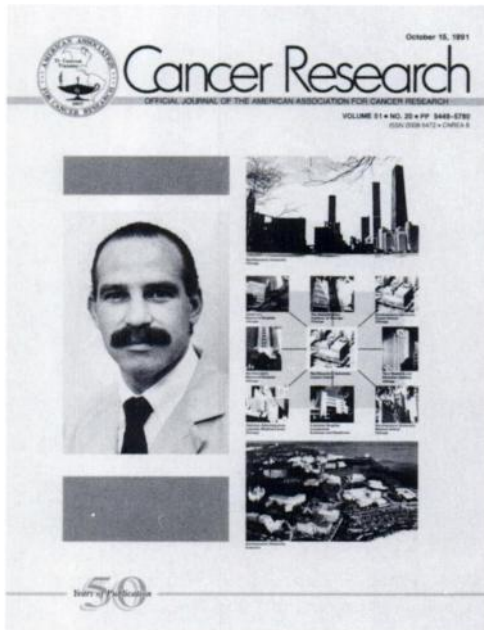
### **CELLULAR RESPONSES TO ENVIRONMENTAL DNA DAMAGE**

December 1–6, 1991, Banff, Alberta, Canada  
Organizers: Philip C. Hanawalt, Malcolm C. Paterson

AMERICAN ASSOCIATION FOR CANCER RESEARCH  
Public Ledger Building  
620 Chestnut Street, Suite 816  
Philadelphia, PA 19106  
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# COVER LEGEND

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Steven T. Rosen, M.D., pictured on this issue's cover, is the Genevieve Teuton Professor of Medicine and Director of the Northwestern University Cancer Center. Dr. Rosen is a 1976 honors graduate of Northwestern University Medical School. After serving a fellowship in clinical oncology at the National Cancer Institute, he joined the Northwestern faculty in 1981. He has specialized in tumor immunology and biological response modifier therapies, and has published 125 papers on these and related subjects. In 1989, Dr. Rosen was appointed to the Directorship of the Cancer Center, succeeding Dr. Nathaniel Berlin, who served as Director from 1975 to 1987.

The Center was founded in 1970 by Dr. John L. Brewer, a prominent leader in trophoblastic tumors and currently Chairman Emeritus of the Department of Obstetrics and Gynecology. During Dr. Berlin's tenure, laboratory and office space for the Center was constructed in the Health Sciences Building on the

university's Chicago campus. Comprehensive clinical and basic science research programs were organized; additionally, a graduate training program in tumor cell biology was established.

A constant goal of the Center has been the coordination, cooperation, and integration of the wide range of experimental and clinical cancer research ongoing at Northwestern. Reflecting the separate locations of the university in Evanston and Chicago, the Center's basic research activities are conducted at both the medical school and the main university campus. Clinical and preclinical investigations are performed within the university's affiliate hospitals, which include Northwestern Memorial, Children's Memorial, Evanston/Glenbrook, The Rehabilitation Institute of Chicago, and the Veterans' Administration Lakeside Medical Center. The Kellogg Cancer Care Center, founded through the efforts of Edward F. Scanlon, Professor Emeritus of Surgery, serves as a locus for basic and clinical cancer research at Evanston Hospital.

Assisting Dr. Rosen is James Douglas Engel, Ph.D., Deputy Director of Basic Science. He holds the Owen T. Coon Professorship in Molecular Biology. Dr. Engel heads a varied interdisciplinary program in viral and chemical carcinogenesis, intra/extracellular signalling, regulation of the immune system, differentiation and development, cytoskeleton cell motility and cell matrix, and DNA-protein interactions. Sigmund A. Weitzman, M.D., is Deputy Director of Clinical Sciences and Professor of Medicine. Dr. Weitzman heads the preclinical and clinical research programs that are disease oriented. In addition, there are developing programs in bone marrow transplantation, rehabilitative aspects of cancer care, and cancer control. Altogether, the Center has 350 full and affiliate members. Information and photographs were kindly provided by Dr. Rosen.

Sidney Weinhouse