MODERN DEVELOPMENTS IN CANCER THERAPEUTICS

Joint Conference of the American Association for Cancer Research and the Institute of Biomedical Sciences (Taiwan)

November 7-11, 1994
Academia Sinica, Taipei, Taiwan

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Tumor Biology
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Wen-Hwa Lee / San Antonio
Chawmsang Chang / Madison
Lothar Schweigerer / Heidelberg

Hepatocellular Carcinogenesis:
Treatment and Prevention
*J. Bernard Weinstein / New York
*Juel Low Sung / Taipei
Gi-Ming Lai / Tao-Yuan
Ding-Shinn Chen / Taipei
Zhao-You Tang / Shanghai
Yung-Chi Cheng / New Haven
Brian L. Carr / Pittsburgh

Gene Therapy and Vaccines
*Joseph R. Bertino / New York
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Lih-Hwa Huang / Taipei
Wen-Kuang Yang / Taipei
Drew M. Pardoll / Baltimore
Alan Gewirtz / Philadelphia
Lei Huang / Pittsburgh
J. Martin Brown / Stanford

Summary
Bruce A. Chabner / Bethesda

Applicants are encouraged to submit abstracts for poster presentation.

*indicates Session Chairperson

Information and Application Forms

American Association for Cancer Research
Public Ledger Building, Suite 816
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Philadelphia, PA 19106-3483
215-440-9300 215-440-9313 (FAX)

Institute of Biomedical Sciences
c/o Ms. Iris Li
IBMS, Academia Sinica
Taipei 115, Taiwan, R.O.C.
886-2-789-9007
886-2-782-5573 (FAX)
Control of Tobacco-related Cancers and Other Diseases
Edited by Prakash C. Gupta, P.R. Murti and James E. Hammer
The articles in this book provide an in-depth overview of tobacco use, its adverse health consequences with special emphasis on oral health and cancer, evidence from experimental studies, experiences with tobacco control and intervention programs, and specific legal and policy issues.
1993 372 pp.; 133 illus. $59.95

Environmental Carcinogens
Methods of Analysis and Exposure Measurement Volume 12: Indoor Air
Edited by B. Siefer, H. J. van de Wiel, B. Dodet and I. K. O'Neill
This series of volumes, aimed at improving exposure measurements, deals with the structure, production, assays and systemic effects of cytokines and their receptors. Organized around diseases and organ systems, it reviews the role that cytokines play in the pathogenesis, diagnosis and therapy of each disease. This volume is the first to provide detailed protocols for these manipulations.
(ICA Scientific Publications 109)
1994 408 pp.; 39 illus. $90.00

Pathology of Tumours in Laboratory Animals
Volume 2: Tumours of the Mouse
Second Edition
Edited by V. S. Turusov and U. Mohr
This volume provides a comprehensive, coherent source of reference information for use in chronic toxicity research. Each chapter deals with tumors of a particular organ or system and describes all neoplasms that have been reported to occur in the organ concerned, using the terminology proposed by WHO for human tumors.
(ICA Scientific Publications 111)
March 1994 780 pp.; 863 illus. $179.00

Cancer Incidence in Five Continents
Volume 6
Edited by D. M. Parkin, C. Muir, S. L. Whelan, Y.-T. Gao and J. Ferlay
This volume provides compilations of cancer incidence from 142 registries covering 170 populations in 46 countries, for the years 1983-87. For the first time, the data in the book are also available on computer medium.
(ICA Scientific Publications 120)
1993 1076 pp.; 10 line maps, 150 illus.; 2 program diskettes $185.00

Hospice Care for Children
Edited by Ann Armstrong-Dailey and Sarah Z. Goltzer
"A practical book that may be applied in many hospice settings." —Hospice Forum 1993 320 pp.; 12 illus. $35.00

Pediatric Psychooncology
Psychological Perspectives on Children with Cancer
Edited by David J. Bearison and Raymond K. Mulhern
This volume addresses a wide range of psychological issues pertaining to the practice of pediatric oncology: coping with pediatric cancer, pain and symptom management, medication compliance, sibling and family relations, care of the dying child, and others.
1994 288 pp.; 3 illus. $45.00

Oxford Textbook of Palliative Medicine
Edited by Derek Doyle, Geoffrey W. C. Hanks and Neil MacDonald
"An important benchmark in palliative medicine...the masterpiece book on knowledge about what can be done. These editors have collected the wisdom...extraordinary. The chapters on palliative research, pain management, and symptom control are superb...should be purchased by every library. It is required reading for oncologists and hospice physicians, as well as for primary care physicians." —New England Journal of Medicine
1993 864 pp.; 165 illus. $125.00

You Don't Have to Suffer
A Complete Guide to Relieving Cancer Pain for Patients and Their Families
Susan S. Lang and Richard B. Patt
"This excellent book provides comprehensive and detailed information about the management of pain and other symptoms associated with cancer. It is the first book of this scope written for patients and their families, and provides an abundance of useful information to the reader." —Russell K. Portenoy, M.D., Memorial Sloan-Kettering Cancer Center
1994 384 pp.; 8 illus. $25.00

Lung Cancer
The Facts Second Edition
Chris Williams
In a clear, accessible style, this revised and updated edition provides the answers to the questions patients with lung cancers or those involved with them are likely to ask.
(The Facts Series)
1993 160 pp.; 22 illus. $21.95

Bowel Cancer
The Facts
John M. A. Northover and Joel D. Kettner
This book gives the general public detailed and clear information about bowel cancer, the second most common malignant cause of death in the Western world.
(The Facts Series)
1993 184 pp.; 16 illus. $22.50
Transcriptional Control of Cell Growth and Differentiation

October 16-20, 1994
Chatham Bars Inn, Chatham (Cape Cod), Massachusetts

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Eric N. Olson / Houston, TX
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SCIENTIFIC PROGRAM

Opening Lectures
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James E. Darnell, Jr. / New York, NY

Cell Cycle and Transcription - I
David M. Livingston / Boston, MA
Stephen J. Elledge / Houston, TX
Robert N. Eisenman / Seattle, WA
Carol L. Prives / New York, NY

Cell Cycle and Transcription - II
George F. Vande Woude / Frederick, MD
Mark Kirschner / Boston, MA
Steven L. Reed / La Jolla, CA

Signal Transduction Systems Influencing Transcription
Joan V. Ruderman / Boston, MA
Marc Montminy / La Jolla, CA
Jean Y. J. Wang / La Jolla, CA
Spyridon Artavanis-Tsakonas / New Haven, CT

Transcription Factors Controlling Cell Growth
Michael Karin / La Jolla, CA
Richard Treisman / London, England
Michael Z. Gilman / Cold Springs Harbor, NY

Transcription Factors Controlling Cell Differentiation - I
Bruce M. Spiegelman / Boston, MA
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Michael G. Rosenfeld / La Jolla, CA
Michael Levine / La Jolla, CA

Transcription Factors Controlling Cell Differentiation - II
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Development
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Clifford Tabin / Boston, MA

Applicants are encouraged to submit abstracts for poster presentation.

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

Application Deadline: June 27, 1994
EACR XIII

The Thirteenth Meeting of the European Association for Cancer Research
Berlin, Germany
September 25-28, 1994

The EACR invites members and non-members to attend its next major meeting in Berlin. The meeting will cover theoretical and experimental approaches in cancer research as well as new aspects of clinical significance. Molecular and cell biology will be the main focus of the meeting.

Issues and Speakers to include:

- Orthologous carcinogen-metabolizing enzymes: Confusion and progress - R. Wolf, Dundee
- Molecular aspects of invasion and metastasis - W. Birchmeier, Berlin
- DNA repair deficiency syndromes and cancer - D. Bootsma, Rotterdam
- Minimal residual disease: risk factors and detection M.I. Colnaghi, Milano
- Significance of mutation spectra for carcinogenesis - E. W. Vogel, Leiden
- Immunotherapy: The new challenges - G. Riethmuller, Munchen
- Recent results in occupational carcinogenesis - S. Hersberg, Helsinki
- Cancer gene identification and gene therapy - M. Schwab, Heidelberg

Poster sessions will be organized. Interested participants are invited to submit poster abstracts on Symposium related topics. Deadline for abstract submission is June 15th, 1994.

For registration and abstract forms, contact the EACR XIII Secretariat:
Prof. Dr. G. Pasternak, Max Delbruck Center for Molecular Medicine
Robert-Rosenthal-Str. 10, D-13122 Berlin, Germany
Tel: +49-30/9406 2308 or 3740
Fax: +49-30/9494161

Reduced registration fees are available to members of the EACR. For further details and application form, please contact: Dr. M.R. Price, EACR Secretariat, Cancer Research Laboratory, University of Nottingham, Nottingham NG7 2RD, U.K. Tel: (0602) 513418, Fax: (0602) 515115.

AMERICAN CANCER SOCIETY CLINICAL ONCOLOGY FELLOWSHIPS

The American Cancer Society is pleased to announce the 1995 Clinical Oncology Fellowships (COF). The COF is intended to support a multidisciplinary training experience for physicians and dentists preparing for a leadership career in academic oncology. The program may include training in cancer control, prevention, detection, diagnosis, therapy, rehabilitation, and research. The Fellowship is expected to provide unique training in addition to that which is normally provided in postgraduate training programs designed to fulfill requirements of specialty boards, and is available to citizens or permanent residents of the United States only.

Applications are to be submitted by institutions (not prospective fellows) by July 1, 1994 for fellowships to begin July 1, 1995. The stipend for this one-year award is $10,000.

To request further information or application materials, please contact the office of:

Virginia Krawiec, MPA
Clinical Awards Program
American Cancer Society, Inc.
1599 Clifton Road, N.E.
Atlanta, GA 30329-4251
Telephone: 404-329-5734
Fax: 404-325-2548

MISSOURI

The Divisions of Oncology at Washington University School of Medicine seek applicants for tenured-track or tenured faculty positions at the Assistant/Associate Professor levels. These newly-formed Medical and Molecular Oncology Divisions of the Department of Medicine plan to emphasize collaborative cancer-related interactions between clinic and laboratory.

Candidates should be committed to full-time academic careers in clinical therapeutic research or laboratory research. Special emphases in collaborative research include pharmacology, molecular diagnostics, immunotherapy, and gene therapy.

Send curriculum vitae and names of three references to:

Stanley J. Korsmeyer, M.D.
Chief, Molecular Oncology
Campus Box 8022

or

Daniel C. Ihde, M.D.
Chief, Medical Oncology
Campus Box 8065
Washington University School of Medicine
600 S. Euclid Avenue
St. Louis, MO 63110
AMERICAN ASSOCIATION FOR CANCER RESEARCH
SCIENTIFIC CONFERENCES

JULY 1-8, 1994
Molecular Biology in Clinical Oncology
A Workshop for Clinical Oncologists in Training
Supported by a Generous Grant from the National Cancer Institute
Chairpersons: Stephen H. Friend, Charlestown, MA; L. Michael Glode, Denver, CO
The Given Institute, Aspen, CO

JULY 17-24, 1994
Histopathology of Neoplasia
The Edward A. Smuckler Memorial Workshop for Predoctoral and Postdoctoral Fellows Contemplating Careers in Basic Cancer Research
Supported by a Generous Grant from the National Cancer Institute
Chairperson: Michael W. Lieberman, Houston, TX
Keystone Conference Center, Keystone, CO

OCTOBER 16-20, 1994
Transcriptional Control of Cell Growth and Differentiation
Chairpersons: Eric N. Olson, Houston, TX; Bruce M. Spiegelman, Boston, MA
Chatham Bars Inn, Chatham (Cape Cod), MA

NOVEMBER 7-11, 1994
Modern Developments in Cancer Therapeutics
Joint Meeting with Academia Sinica
Chairperson: Yung-chi Cheng, New Haven, CT
Academia Sinica, Taipei, Taiwan, R.O.C.

NOVEMBER 29-DECEMBER 4, 1994
Translational Research in Cancer
Chairperson: Carlo M. Croce, Philadelphia, PA
Grove Park Inn, Asheville, NC

DECEMBER 8-13, 1994
Basic and Clinical Aspects of Prostate Cancer
Chairperson: Donald S. Coffey, Baltimore, MD
Marriott's Rancho Las Palmas Resort, Rancho Mirage (Palm Springs), CA

JANUARY 14-19, 1995
Mechanism of Action of Retinoids, Vitamin D, and Steroid Hormones
Chairpersons: Michael B. Sporn, Bethesda, MD; Ronald M. Evans, San Diego, CA; David Mangelsdorf, San Diego, CA
Whistler Resort and Conference Center, Whistler, B.C., Canada

FEBRUARY 13-18, 1995
Molecular Biology of Cancer: Implications for Prevention and Therapy
Joint Meeting with Japanese Cancer Association
Chairpersons: Lee W. Wattenberg, Minneapolis, MN; Masaaki Terada, Tokyo, Japan
Maui Marriott Hotel, Maui, HI

MARCH 19-22, 1995
86th Annual Meeting
Chairperson: Donald S. Coffey, Baltimore, MD
Metro Toronto Convention Centre, Toronto, Ontario, Canada
(Deadline: October 14, 1994)

AACR members will receive brochures on the above special conferences as soon as they are available. Nonmembers should call or write:
American Association for Cancer Research
Public Ledger Building
620 Chestnut Street, Suite 816
Philadelphia, PA 19106-3483
215-440-9300 • 215-440-9313 (FAX)
The career of Henry Clement Pitot as an investigator in cancer research began while he was a graduate student with Emmanuel Farber at Tulane University and continued during a postdoctoral fellowship with Van R. Potter of the McArdle Laboratory. Dr. Pitot stayed at the McArdle Laboratory as a faculty member, initially working closely with Dr. Potter, but rapidly developing his own independent research group whose productivity has continued to the present day.

Among the early activities of Dr. Pitot and his colleagues was the demonstration that the environmental regulation of gene expression in both primary and transplanted hepatocellular carcinomas in the rat was defective and significantly different from such regulation in both normal and host liver (Annu. Rev. Biochem., 35: 335–368, 1966). In studies of the potential mechanism of these widespread alterations in the regulation of gene expression in hepatic neoplasms, Dr. Pitot’s group developed evidence that in the specific instances studied by this group, the defective genetic regulation seen in hepatomas was the result of posttranscriptional alterations involving changes in the mRNA template stability of the genes being studied. These findings led to the proposal that such alterations and template stability could be related to interactions of mRNA and its functional polysome unit with intracellular membranes of the endoplasmic reticulum. As a spinoff of these mechanistic studies, members of Dr. Pitot’s research group demonstrated that the incorporation of purine or pyrimidine base analogues into RNA resulted in a dramatic inhibition of the matura-

tion of ribosomal RNA with subsequent inhibition of new ribosome formation (FASEB J., 5: 2280–2286, 1991). Their further studies suggested that the defective maturation may be the result of changes in the conformation and/or the structural sequence of the mRNA, resulting in an inhibition or alteration of the normal cleavage of ribosomal RNA precursors to their mature forms. Subsequent studies by others have shown that this mechanism is very important in the chemotherapeutic effects of base analogues in the treatment of human neoplasia.

In attempting to delineate further the cell and molecular biology of hepatocarcinogenesis, Dr. Pitot’s group was among the first to develop a reproducible method for a high-yield primary culture of rat hepatocytes that retain most hepatic xenobiotic functions with collagen substrates. Numerous studies by Dr. Pitot’s group have extended these original findings to the study of genetic expression and cell replication under completely controlled conditions (serum-free media) in cultures of normal and preneoplastic hepatocytes. In following the example of his colleagues at the McArdle Laboratory, especially Dr. Roswell K. Boutwell’s studies of multistage carcinogenesis in mouse skin, Dr. Pitot’s group demonstrated and characterized the stages of initiation, promotion, and progression in chemically induced hepatocarcinogenesis in the rat. Quantitation of the stages of initiation and promotion was effected by the development, in association with Harold Campbell, of methods using quantitative stereology utilizing computer technology. By these methods, the relative initiating and promoting potencies of specific chemicals and other agents can be determined in this system. By such methods, Pitot’s group has demonstrated the effectiveness, as promoting agents, of 2,3,7,8-tetrachloro-

dibeno-p-dioxin (TCDD), peroxisome proliferators, and tamoxifen, as well as uncharacterized factors in both crude and purified diets. In this model system, the operational reversibility of the stage of promotion at both the cellular and molecular level has been clearly demonstrated, as well as the roles of altered hepatic foci in the development of the stages of promotion and progression. The absence of karyotypic alterations in cells in the stage of promotion and the presence of extensive karyotypic alterations in cells in the stage of progression have also been delineated in this system. From such studies, characteristic chromosomal alterations can be identified in primary hepatocellular carcinomas resulting from chemical carcinogenesis, and virtually identical chromosomal alterations are seen in primary carcinomas of the liver developing in a transgenic rat model, with all animals having hepatic carcinomas by 5 months of age. Thus, neoplasms originating from quite different causative factors still exhibit the same genetic characteristics.

In parallel with all of the studies on hepatic cancer and carcinogenesis in the rat, Dr. Pitot’s group has made contributions to the regulation of the expression of specific genes in liver cells both in vivo and in vitro. These include the initial observation of the carbohydrate repression of gene expression in vivo, the isolation and characterization of several new gene products (enzymes), and the determination of the structure of both their genes and mRNAs where expressed in the liver, specifically ornithine aminotransferase and serine dehydratase. Dissection of the regulatory region of the latter has also been accomplished (Mol. Cell. Endocrinol., 90: 141–146, 1992).

Dr. Pitot has received numerous awards for his research, including the Lucy Wortham James Laboratory Research Award of the Society of Surgical Oncology, 1981; the Noble Foundation Research Recognition Award, 1983; the Esther Langer Award in Cancer Research, University of Chicago, 1984; Honorary Membership in the Japanese Cancer Association, 1985; the Distinguished Service Award, American Cancer Society, 1989; Honorary Life Membership in the American Cancer Society, 1991; and the Founders Award, Chemical Industry Institute of Toxicology, 1993. He has been very active in professional organizations, including the American Association for Cancer Research, and on study sections, has been a member of numerous editorial boards, including that of Cancer Research, and is a member of the prestigious President’s Cancer Panel, 1992–1995. His academic appointments include Professor of Oncology and Pathology at the University of Wisconsin, 1966–present, Chairman of Pathology, 1968–1971, Acting Dean of the Medical School, 1971–1973, and Director, McArdle Laboratory for Cancer Research, University of Wisconsin, 1973–1991.

Sidney Weinhouse