Molecular Biology in Clinical Oncology  
A thorough overview of concepts in molecular biology designed for clinical oncologists in training

July 3-9, 1998, The Given Biomedical Institute, Aspen, CO  
Michael B. Kastan, L. Michael Glodé, and Jennifer A. Pietenpol, Organizers

- Lectures by leading experts on molecular biology concepts and the latest developments in molecular oncology
- Small group laboratory sessions to demonstrate the important experimental techniques utilized in molecular biology
- Career development session and scheduled networking opportunities

Molecular Biology and Pathology of Neoplasia  
(formerly entitled Histopathobiology of Neoplasia)  
The Edward A. Smuckler Memorial Workshop  
Intensive training in the molecular biology and morphology of human cancer for graduate students and postdoctoral fellows contemplating careers in basic cancer research

Frederick M. Waldman, Course Director

- Twenty-eight hours of hands-on laboratory exercises directed by distinguished pathologists
- An outstanding series of lectures on rapidly developing areas of cancer research by laboratory directors and other prominent investigators
- Poster presentations by students and faculty to facilitate further scientific exchange

Methods in Clinical Cancer Research  
Co-Sponsored by the American Society of Clinical Oncology (ASCO)  
The essentials of clinical trials design for researchers at the level of fellow or junior faculty

Daniel D. Von Hoff and Charles A. Coltman, Jr., Chairpersons

- A series of lectures by leaders in the field covering all elements of clinical trials design
- Small group discussion sessions on important techniques in clinical research
- Development of a clinical trial protocol by all participants with detailed critiques by faculty members

AACR members will receive brochures for all three workshops as soon as they are available. (The Clinical Methods Workshop brochure is also mailed to all ASCO members.) All others should submit requests to:

American Association for Cancer Research • Public Ledger Building, Suite 826 • 150 S. Independence Mall West  
Philadelphia, PA 19106-3483 • Telephone: (215) 440-9300 • FAX: (215) 440-9313 • E-mail: meetings@aacr.org  
Website: http://www.aacr.org
Overview: Developmental Biology and Cancer
Mario R. Capecchi, Ph.D.

Session 1: PAX Genes
Moderator: Phillip A. Sharp, Ph.D.
PAX Genes in Development
Peter Gruss, Ph.D.
The Role of Chimeric Paired Box Transcription Factors in the Pathogenesis of Pediatric Rhabdomyosarcoma
Frederic G. Barr, M.D., Ph.D.
PAX Genes in B Cell Development and Disease
Meinrad Busslinger, Ph.D.

Session 2: Embryonal Tumors
Moderator: Sharon B. Murphy, M.D.
Id Gene Expression as a Key Mediator of Tumor Cell Biology
Mark A. Israel, M.D.
Developmental Basis of Retinal-Specific Induction of Cancer by RB1 Mutation
Brenda L. Gallie, M.D.
RET: Developmental and Tumor Syndromes
Bruce A. J. Ponder, Ph.D.

Session 3: Embryonal Tumors and Breast Cancer
Moderator: Ray L. White, Ph.D.
Genomic Imprinting and Cancer
Andrew P. Feinberg, M.D.
Multiple Roles for the Wilms’ Tumor Suppressor, WT1
Nicholas D. Hastie, Ph.D., B.Sc.
Functional Analysis of the BRCA1 Gene Product
David Livingston, M.D.
Reversion of the Malignant Phenotype in Human Breast Cancer Epithelial Cells: Structure is the Message
Mina J. Bissell, Ph.D.
Mammary Gland Development and Carcinogenesis: Molecules at the Crossroads
Lewis A. Chodosh, M.D., Ph.D.

Session 4-A: Leukemia and Developmental Genes
Moderator: Louise C. Strong, M.D.
Identification and Characterization of Collaborating Oncogenes in Lymphomagenesis
Anton Berns, Ph.D.
BCL-2 Family Death Regulators in Development and Homeostasis
Stanley J. Korsmeyer, M.D.
ALL-1 and TCL1 Role in Human Leukemias and Mammalian Development
Carlo M. Croce, M.D.

Session 4-B: Leukemia and Developmental Genes: Functional Genes
Moderator: Günter Schütz, M.D.
Intersections Between Blood Cell Development and Leukemia Genes
Stuart H. Orkin, M.D.
CBF: A Central Player in Hematopoiesis and Leukemia
Nancy A. Speck, Ph.D.
Chromosomal Translocations and What They Do in Leukemias
Terry H. Rabbits, Ph.D., F.R.S.

For further information contact:
General Motors Cancer Research Foundation
e/o Campbell, Peachey & Associates
111 Quincy Place, N.E.
Washington, D.C. 20002
Telephone: (202) 636-8745
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Dr. Nita J. Maihle, Mayo Clinic, Rochester, MN 55905 (regis_scholars@mayo.edu).

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lum Vitae to: Enrico Mihich, M.D., Chair, Department
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CANCER RESEARCH

The American Association for Cancer Research (AACR) is a professional society of over 11,000
scientists and physicians involved in all aspects of basic, clinical, and translational cancer research.
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THE AMERICAN ASSOCIATION FOR CANCER RESEARCH PRESENTS

An Important Educational Opportunity Primarily for Predoctoral Students and Postdoctoral Fellows Pursuing Careers in Basic Cancer Research

MOLECULAR BIOLOGY AND PATHOLOGY OF NEOPLASIA
(A Workshop Formerly Entitled Histopathobiology of Neoplasia)

The Edward A. Smuckler Memorial Workshop
Supported by a Generous Grant from the National Cancer Institute

Keystone Resort
Keystone, Colorado
July 12-19, 1998

• Intensive training in the histopathology and molecular biology of neoplasia.

• Twenty-eight hours of hands-on laboratory exercises directed by distinguished pathologists.

• An outstanding series of lectures on rapidly developing areas of cancer research by laboratory directors and other prominent investigators.

• Extensive written course materials that will serve as valuable references in the future.

• For trainees: Waiver of registration fee and full funding of lodging and subsistence expenses during the workshop.

LABORATORY AND LECTURING FACULTY

Frederic M. Waldman*, Course Director, University of California, San Francisco, CA
Stephen Baird, Veterans Administration Medical Center, San Diego, CA
Betty DeMasters, University of Colorado School of Medicine, Denver, CO
Lora A. Hedrick, Johns Hopkins University School of Medicine, Baltimore, MD
Roy A. Jensen, Vanderbilt University, Nashville, TN
John M. Lehman, Albany Medical College, Albany, NY
Michael W. Lieberman, Baylor College of Medicine, Houston, TX
Lawrence A. Loeb, University of Washington, Seattle, WA

Robert Low*, University of Colorado School of Medicine, Denver, CO
Frank McCormick, University of California, San Francisco, CA
Gary J. Miller*, University of Colorado School of Medicine, Denver, CO
Harold L. Moses, Vanderbilt University School of Medicine, Nashville, TN
Stewart Sell, Albany Medical College, Albany, NY
Patricia A. Thomas, Kansas University Medical Center, Kansas City, KS
Ann D. Thor, Northwestern University, Chicago, IL

*Member of the Workshop Executive Committee

APPLICATION DEADLINE: APRIL 30, 1998

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The American Association for Cancer Research Presents

Molecular Biology in Clinical Oncology: A Workshop
Supported by a Generous Grant from the National Cancer Institute

An intensive, one-week summer workshop on molecular biology designed for clinical oncologists in training or in their early academic careers.

July 3-9, 1998
Given Biomedical Institute
Aspen, Colorado

ORGANIZERS

MICHAEL B. KASTAN
The Johns Hopkins Oncology Center
Baltimore, MD

L. MICHAEL GLODÉ
University of Colorado School of Medicine
Denver, CO

JENNIFER A. PIETENPOL
Vanderbilt University School of Medicine
Nashville, TN

• Lectures by leading experts on molecular biology concepts and the latest developments in molecular oncology. Topics include gene therapy, oncogenes and growth factors, tumor suppressor genes, molecular genetics, metastasis genes, and drug design.

• Small group laboratory sessions to demonstrate the important experimental techniques utilized in molecular biology.

• A workshop syllabus containing relevant published papers, references to key articles in the literature, and details on important laboratory procedures.

• Financial support for participants who are physicians in training or oncology fellows.

Faculty

Lectures

KATHLEEN R. CHO/ Baltimore, MD
CHI VAN DANG/ Baltimore, MD
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TYLER JACKS/ Cambridge, MA
MICHAEL B. KASTAN/ Baltimore, MD
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JENNIFER A. PIETENPOL/ Nashville, TN
FRANK J. RAUSCHER, III/ Philadelphia, PA
NADIA ROSENTHAL/ Charlestown, MA
ERIC J. STANBRIDGE/ Irvine, CA

Laboratory Rotations

MARK S. BOGUSKI/ Bethesda, MD. "Computer Searching in Molecular Biology."
LAB DIRECTOR TO BE ANNOUNCED/ "Specialized Techniques in PCR."
JAMES P. HOEFFLER/ San Diego, CA. "Protein Expression."
ROBERT A. SCLAFANI/ Denver, CO. "Transcript Array Analysis."
LAB DIRECTOR TO BE ANNOUNCED "Inducible Gene Expression Systems."

Application Deadline March 30, 1998

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Grasl-Kraupp’s most recent work, even malignant liver tumors appear more sensitive to induction of apoptosis than normal liver, suggesting that selective elimination of tumors by “physiological” inducers of apoptosis may be feasible.

Other successful research projects are under way at the Institute. The Department of Molecular Genetics, under U. Winterberger, is studying the control of cell division in yeast. New genes required for DNA replication and exact chromosome transmission during mitosis have been isolated (Mol. Biol. Cell, 6: 1263, 1995; Yeast, 11: 929, 1995). The Department of Oncological Biochemistry, under Georg Sauermann, is investigating nuclear matrix proteins, their tissue specificity and changes during apoptosis. Christa Cerni and Jozefa Gadek-Wesierski are studying the cooperation and interaction among different oncogenes and tumor suppressor genes such as myc, mad, max, and p53 during cell transformation (Oncogene, 11: 587, 1995; J. Cell. Biochem. 62: 90, 1996). Growth control by growth factors and protein kinase C during carcinogenesis in human colon is the target of Brigitte Marie’s work (Carcinogenesis, 110: 1753, 1990). The Department of Applied Oncology, under Michael Micksche, collaborates with clinical oncologists on cytokine effects in malignant cells (Cancer, 59: 717, 1994) and was found by Leonilla Elbling to protect the zygote and early embryo from chemical insults (FASEB J., 7: 1499, 1993). Walter Paukovits has discovered a pentapeptide that reversibly inhibits proliferation of early stem cells in bone marrow. The peptide may protect stem cells from toxic and mutagenic effects of cytostatic drugs (Blood, 81: 1755, 1993). Karl Mazzucco and Siegfried Knasmüller monitor carcinogens in the environment, including textiles, vegetables, and water (Chemosphere, 28: 1525, 1994; Mutat. Res., 346: 181, 1995). The Epidemiology Department, under Christian Vutuc, is concerned with various descriptive and cross-sectional studies on cancer in Austria, and the quantitative studies on cigarette tar and lung cancer (J. Natl. Cancer Inst., 71: 435, 1983) emanating from there are highly regarded.

Dr. Schulte-Hermann has been the Director of the Institute since 1985. He trained in Pharmacy and in Medicine in Bonn, Berlin, and Marburg, Germany, and earned a Ph.D. in 1968 at the Pharmacological Institute of the Freie Universität, Berlin. From 1968–1985, he served as Assistant Professor and Professor of Toxicology and Pharmacology at the University of Marburg, Germany. His specialization is toxicology and chemical carcinogenesis, in which area he has published 150 experimental papers, reviews, and book chapters. He and his coworkers have developed a 3-year postgraduate course in toxicology, the first training program in toxicology in Austria. Dr. Schulte-Hermann has been a member of the American Association for Cancer Research since 1988. He is a recognized expert on hepatocarcinogenesis and nongenotoxic carcinogens, and he serves on several advisory committees of the Austrian government.

Dr. Bursch was trained in Biology and Chemistry at the University of Bonn, Germany. In 1979, he earned a Ph.D. in Biology at the Institute for Applied Zoology, University of Bonn. He subsequently joined Dr. Schulte-Hermann’s group in Marburg and transferred with him to Vienna in 1986. His major research concerns apoptosis and its relevance in chemical carcinogenesis. He has published approximately 60 papers, reviews, and book chapters. He is a member of the Advisory Board of Cell Death and Differentiation, and he serves as an expert in ecotoxicology for the Austrian government.

Dr. Grasl-Kraupp received her M.D. at the University of Vienna and joined Dr. Schulte-Hermann’s group in 1985. Her research interests have been in experimental hepatocarcinogenesis, with emphasis on nongenotoxic carcinogens and on apoptosis. She found that peroxisome proliferators induce tumors by promotion of spontaneously appearing preneoplastic lesions. She has published over 40 papers and reviews, and like Drs. Schulte-Hermann and Bursch, she serves as an expert to the Austrian government on matters dealing with cancer research.

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