

GROWTH REGULATION

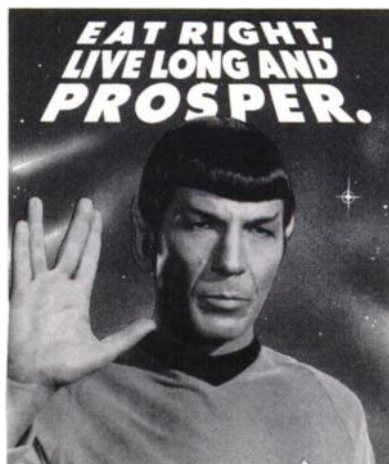
The Fred Hutchinson Cancer Research Center is seeking an M.D. or Ph.D. for an appointment at the Assistant Member level in Growth Regulation under Dr. George Todaro.

This individual must have training and a minimum of four years of postdoctoral research experience in immunology as it relates to growth regulation and cell-cell interaction. Research interests may include characterization of regulatory molecules and mechanisms, cytokines and their surface receptors, signal transduction, or molecular inflammatory responses. Methodologies of interest include biochemical analysis, molecular genetics, monoclonal antibody production, flow cytometry methods, and transgenic mouse development.

We are an Equal Opportunity Employer. Candidates should send curriculum vitae, a concise statement of their research plans, three letters of reference, and letter of application to

Clinical Research Division
New Appointments Committee
Growth Regulation Search - M246
Fred Hutchinson Cancer Research Center
1124 Columbia
Seattle, WA 98104.

Smoke-free environment.



EATING RIGHT IS HIGHLY LOGICAL.

Recommendations:

Eat high-fiber foods, such as fruits, vegetables, and whole grain products. Eat fewer high-fat foods. Maintain normal body weight. And live long and prosper.

CALL THE AMERICAN CANCER SOCIETY AT 1-800-ACS-2345 FOR FREE NUTRITION INFORMATION.



STAR TREK • & • 1989
PARAMOUNT PICTURES CORPORATION
ALL RIGHTS RESERVED.
THE AMERICAN CANCER SOCIETY AUTHORIZED USER.

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.

VECTOR

ENZYME SUBSTRATE KITS

PEROXIDASE

| | |
|------|-----------------------------|
| DAB | (insoluble, brown or black) |
| AEC | (insoluble, red) |
| 4-CN | (insoluble, grey) |
| TMB | (insoluble, blue) |
| ABTS | (soluble, green) |

ALKALINE PHOSPHATASE

| | |
|-------------|--------------------------|
| Vector® Red | (insoluble, red)* |
| Kit II | (insoluble, black) |
| Kit III | (insoluble, blue) |
| BCIP/NBT | (insoluble, blue/violet) |
| PNPP | (soluble, yellow) |

**highly fluorescent product*

GLUCOSE OXIDASE

| | |
|------|--------------------------|
| NBT | (insoluble, blue/purple) |
| TNBT | (insoluble, black) |
| INT | (insoluble, red/violet) |

Each kit contains necessary reagents in convenient dropper bottles sufficient to prepare 200 or 300 ml of working substrate solutions. The kits have been designed for optimal performance in immunohistochemistry, *in situ* hybridization, enzyme immunoassays, and transfer blot techniques. For specific details or protocols please phone or write:

VECTOR LABORATORIES, INC.
30 Ingold Road, Burlingame, CA 94010
(415) 697-3600

VECTOR LABORATORIES, LTD.
16 Wulfic Square, Bretton, Peterborough PE3 8RF U.K.
(0733) 265530

plus 26 distributors worldwide



© 1991 Vector Laboratories, Inc.

OFFERS:



CASSETTE ORDER FORM

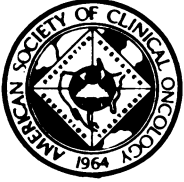


82nd ANNUAL MEETING OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH

Held May 15-18, 1991 in Houston, Texas

- CAN 101 **Discoveries and Opportunities in Cancer Research** (Three Cassettes)
\$34.50
- CAN 102 **Symposium 1: Negative Growth Regulators**
\$23.00 (Two cassettes)
- CAN 103 **Symposium 2: Multiple Primary Cancers: Epidemiology and Molecular Mechanisms**
\$23.00 (Two cassettes)
- CAN 104 **Symposium 3: Molecular Biology of DNA Damage and Repair** (Two cassettes)
\$23.00
- CAN 105 **Minisymposium Preclinical Pharmacology/Experimental Therapeutics 1: Novel Agents I** (Three cassettes)
\$34.50
- CAN 106 **Minisymposium Biology 1: Signal Transduction I** (Three cassettes)
\$34.50
- CAN 107 **Minisymposium Immunology 1: Monoclonal Antibodies and Human Tumor Antigens** (Three cassettes)
\$34.50
- CAN 108 **Tenth Rhoads Memorial Award Lecture: Retroviral-mediated Gene Transfer: Basic and Practical Applications** [Richard C. Mulligan] (One cassette)
\$11.50
- CAN 109 **Minority Issues Committee Symposium: Careers and Opportunities in Cancer Research: Research and Survival in the 1990s** (One cassette)
\$11.50
- CAN 110 **Meet the Expert Sunrise Session: Do Human Tumors Arise from Normal Cellular Processes?** [Lawrence A. Loeb] (One cassette)
\$11.50
- CAN 111 **Minisymposium Preclinical Pharmacology/Experimental Therapeutics 7: Oligonucleotides as Anticancer Drugs** (Three cassettes)
\$34.50
- CAN 112 **Minisymposium Molecular Biology/Virology 3: Tumor Suppressor Genes II** (Three cassettes)
\$34.50
- CAN 113 **Minisymposium Carcinogenesis 4: Tumor Promotion and Progression II** (Three cassettes)
\$34.50
- CAN 114 **Symposium 4: Cell Cycle Control in Eukaryotes Large and Small** (Two cassettes)
\$23.00
- CAN 115 **Symposium 5: Hormones and Cancer** (Two cassettes)
\$23.00
- CAN 116 **Symposium 6: Ethnic Differences in Cancer Etiology** (Two cassettes)
\$23.00
- CAN 117 **Symposium 7: Cancer Chemoprevention: Investigations in Animal Model Systems and Human Trials** (Two cassettes)
\$23.00
- CAN 118 **Symposium 8: Recombinant DNA Approaches to Drug Development** (Two cassettes)
\$23.00
- CAN 119 **Symposium 9: The Nuclear Matrix and the Malignant Cell** (Two cassettes)
\$23.00
- CAN 120 **Minisymposium Preclinical Pharmacology/Experimental Therapeutics 12: Growth Factor Receptors and Surface Antigens as Targets for Chemotherapy** (Three cassettes)
\$34.50
- CAN 121 **Minisymposium Biology 5: Negative Growth Factors I** (Three cassettes)
\$34.50
- CAN 122 **Minisymposium Epidemiology 1: Molecular Epidemiological Studies of Cancer** (Three cassettes)
\$34.50
- CAN 123 **Presidential Address: Molecular Oncology—A Bridge Between Basic Science, Cancer Prevention, and Treatment** [I. Bernard Weinstein] (One cassette)
\$11.50
- CAN 124 **Annual Business Meeting** (One cassette)
\$11.50
- CAN 125 **Meet the Expert Sunrise Session: Tumor Promotion: A Trivial Process with a Very Sophisticated Molecular Basis** [Stuart H. Yuspa] (One cassette)
\$11.50
- CAN 126 **Minisymposium Preclinical Pharmacology/Experimental Therapeutics 17: Resistance to Platinum and Alkylating Agents** (Three cassettes)
\$34.50
- CAN 127 **Minisymposium Immunology 9: Cytolytic Effectors in Cancer Immunotherapy** (Three cassettes)
\$34.50
- CAN 128 **Minisymposium Carcinogenesis 11: Dietary Factors in Carcinogenesis** (Three cassettes)
\$34.50
- CAN 129 **Symposium 10: Molecular Epidemiology** (Two cassettes)
\$23.00
- CAN 130 **Symposium 11: Current Status of the Human Genome Project** (Two cassettes)
\$23.00
- CAN 131 **Symposium 12: Clonal Evolution in Cancer** (Two cassettes)
\$23.00
- CAN 132 **Thirty-First G.H.A. Clowes Memorial Award Lecture: The Ways of *ras*** [Michael H. Wigler] (One cassette)
\$11.50
- CAN 133 **Symposium 13: Drug Delivery Systems** (Two cassettes)
\$23.00
- CAN 134 **Minisymposium Immunology 11: Cytokine Modulation of Tumor Growth** (Three cassettes)
\$34.50
- CAN 135 **Minisymposium Clinical Investigations 6: Biological Therapies** (Three cassettes)
\$34.50
- CAN 136 **Minisymposium Biochemistry 6: Repair of DNA Damage** (Three cassettes)
\$34.50
- CAN 137 **Minisymposium Carcinogenesis 15: Sequence Specific Factors in Mutagenesis and Carcinogenesis** (Three cassettes)
\$34.50
- CAN 138 **Plenary Session 1: Molecular Mechanisms of Tumor Suppressor Genes and Oncogenes** (Two cassettes)
\$23.00
- CAN 139 **Tenth Cain Memorial Award Lecture: Future Opportunities for Clinical Use of Retinoids and TGF- β** [Michael B. Sporn] (One cassette)
\$11.50
- CAN 140 **Meet the Expert Sunrise Session: Tumor Immunology: Is There a Future?** [Margaret L. Kripke] (One cassette)
\$11.50
- CAN 141 **Minisymposium Preclinical Pharmacology/Experimental Therapeutics 28: P-Glycoprotein: Structure, Function, and Clinical Implications** (Three cassettes)
\$34.50
- CAN 142 **Minisymposium Molecular Biology/Virology 10: Oncogenes IV** (Three cassettes)
\$34.50
- CAN 143 **Minisymposium Clinical Investigations 9: Autologous Marrow Transplantation and Colony Stimulating Factors** (Three cassettes)
\$34.50
- CAN 144 **Minisymposium Biology 14: Cell Adhesion and Metastasis** (Three cassettes)
\$34.50
- CAN 145 **Minisymposium Carcinogenesis 18: Cell Transformation** (Three cassettes)
\$34.50
- CAN 146 **Symposium 14: Tumor Vaccines and Active Immunotherapy** (Three cassettes)
\$34.50
- CAN 147 **Plenary Session 2: Protooncogenes and Tumor Suppressor Genes: Development and Cancer** (Two cassettes)
\$23.00
- CAN 148 **The Fifteenth Richard and Hinda Rosenthal Foundation Award Lecture: Role of the BCR-ABL Oncogene in Human Leukemia** [Owen N. Witte] (One cassette)
\$11.50
- CAN 149 **Plenary Session 3: Molecular Pathogenesis of Lung Cancer** (Two cassettes)
\$23.00
- CAN 150 **Minisymposium Preclinical Pharmacology/Experimental Therapeutics 32: DNA Topoisomerase Inhibitors** (Three cassettes)
\$34.50
- CAN 151 **Minisymposium Endocrinology 4: Endocrine, Autocrine, and Paracrine Growth Factors** (Three cassettes)
\$34.50
- CAN 152 **Minisymposium Biochemistry 7: Cell Adhesion** (Three cassettes)
\$34.50
- CAN 153 **JOINT AACR/ASCO SESSION: Plenary Session 4: Genetic Changes in Cancer: Implications for Diagnosis and Treatment in the 1990s** (Two cassettes)
\$23.00

SEE OTHER SIDE FOR ORDER FORM



27th ANNUAL MEETING OF THE AMERICAN SOCIETY OF CLINICAL ONCOLOGY

Held May 19-21, 1991 in Houston, Texas



- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> CO 101 (S1) Breast Cancer Consensus Conference \$11.50 (One cassette) <input type="checkbox"/> CO 102 (S2) Ductal Carcinoma-in-Situ (DCIS) — The New Dilemma (One cassette) \$11.50 <input type="checkbox"/> CO 103 (S3) Clinical Implications of the Biology of Colorectal Cancer (One cassette) \$11.50 <input type="checkbox"/> CO 104 (S4) Brain Tumors \$11.50 (One cassette) <input type="checkbox"/> CO 105 (S5) Bladder Cancer \$11.50 (One cassette) <input type="checkbox"/> CO 106 (S6) Current Issues in Head and Neck Oncology \$11.50 (One cassette) <input type="checkbox"/> CO 107 (S7) Prevention of Melanoma and Lung Cancer \$11.50 (One cassette) <input type="checkbox"/> CO 108 (S8) New Developments in the Biology and Treatment of Sarcomas in Children (One cassette) \$11.50 <input type="checkbox"/> CO 109 (S9) A New Look at the Biology and Therapy of Chronic Myelogenous Leukemia (Two cassettes) \$23.00 <input type="checkbox"/> CO 110 (S10) Non-Hodgkin's Lymphoma \$11.50 (One cassette) <input type="checkbox"/> CO 111 (S11) Radiology Oncology, New Areas \$11.50 (One cassette) <input type="checkbox"/> CO 112 (S12) Novel Targets for Cancer Therapy \$11.50 (One cassette) <input type="checkbox"/> CO 113 (SIT1) Growth Factors \$11.50 (One cassette) <input type="checkbox"/> CO 114 (SIT2) Cancer Treatment in Pregnant Women \$11.50 (One cassette) <input type="checkbox"/> CO 115 (SIT3) Cancer in the Socioeconomically Disadvantaged \$11.50 (One cassette) <input type="checkbox"/> CO 116 (SIT4) National Health Care Issues for Oncologists \$11.50 (One cassette) | <ul style="list-style-type: none"> <input type="checkbox"/> CO 117 Adult and Pediatric Leukemia \$34.50 (Three cassettes) <input type="checkbox"/> CO 118 AIDS/Quality of Life/Supportive Care \$34.50 (Three cassettes) <input type="checkbox"/> CO 119 Clinical Pharmacology \$34.50 (Three cassettes) <input type="checkbox"/> CO 120 Lung Cancer \$23.00 (Two cassettes) <input type="checkbox"/> CO 121 Adult Solid Tumors (Melanoma/Sarcoma/CNS) \$23.00 (Two cassettes) <input type="checkbox"/> CO 122 Presidential Address \$11.50 [Harvey M. Golomb, M.D.] (One cassette) <input type="checkbox"/> CO 123 Twenty-second Annual David A. Karnofsky Memorial Lecture: Approaches to the Immunotherapy & Gene Therapy of Cancer \$11.50 [Steven A. Rosenberg, M.D.] (One cassette) <input type="checkbox"/> CO 124 Plenary Session \$23.00 (Two cassettes) <input type="checkbox"/> CO 125 Breast Cancer \$34.50 (Three cassettes) <input type="checkbox"/> CO 126 Genitourinary Tract Cancer \$34.50 (Three cassettes) <input type="checkbox"/> CO 127 Pediatric Solid Tumors \$34.50 (Three cassettes) <input type="checkbox"/> CO 129 Head and Neck Cancer/Gastrointestinal Tract Cancer: Session I (One cassette) \$11.50 <input type="checkbox"/> CO 130 Head and Neck Cancer/Gastrointestinal Tract Cancer: Session II (Two cassettes) \$23.00 <input type="checkbox"/> CO 132 Adult and Pediatric Lymphoma \$23.00 (Two cassettes) |
|---|--|

SPECIAL OFFER:
Order all 16 Symposia & Special Interest Topic Sessions (CO 101-116) and SAVE 10% — \$175.95
(Regular Price \$195.50)

DISCOUNTS:

| | |
|------------------|--------------|
| 1-5 tapes | \$11.50 Each |
| 6-11 tapes | 5% Discount |
| 12-24 tapes | 10% Discount |
| 25-48 tapes | 15% Discount |
| 49 or more tapes | 20% Discount |

How To Order: Check desired cassettes. Fill in information below. Mail order to Teach'em, Inc., 160 E. Illinois, Chicago, IL 60611.
Or call Toll Free: 1-800-225-3775.

Amount of Order (Illinois residents add 8% sales tax) \$ _____
 Foreign Country: Add \$2 per tape outside U.S. \$ _____
 Shipping and Handling: Add \$1 per tape/\$10 maximum \$ _____
 Total \$ _____

Please Indicate:

| | |
|---|--------------------------------------|
| <input type="checkbox"/> Check enclosed payable to Teach'em, Inc. | Card No. _____ |
| <input type="checkbox"/> Visa | Expiration Date _____ |
| <input type="checkbox"/> Mastercard | |
| <input type="checkbox"/> American Express | (\$25 minimum on credit card orders) |

Please Print.

| | |
|--------------------------------------|----------------------------------|
| Name _____ | Title _____ |
| Institution _____ | Telephone No. _____ |
| Address (No P.O. Boxes Please) _____ | City _____ State _____ Zip _____ |
| Signature _____ | |

nature

14TH INTERNATIONAL CONFERENCE

MEMBRANE RECEPTORS AND SIGNAL TRANSDUCTION IN BIOLOGY AND MEDICINE

BOSTON, AT THE COPLEY PLAZA HOTEL NOVEMBER 14-15 1991

ORGANIZERS: MICHAEL BROWN AND JOSEPH GOLDSTEIN

CONFERENCE SESSIONS

1 MEMBRANE PROTEINS

Michael Brown (U of Texas)
Stanley Prusiner (U of Calif.)
Tim Springer (Harvard)
Michael Welsh (U of Iowa)
Richard Klausner (NIH)

2 SIGNALLING PATHWAYS

Ira Herskowitz (U of Calif.)
Gerry Rubin (U of Calif.)
Richard Axel (Columbia U)
Alfred Gilman (U of Texas)
Robert Lefkowitz (Duke U)

COMMENTATORS: MICHAEL BISHOP (U OF CALIF.) SYDNEY BRENNER
(LMB CAMBRIDGE, UK) AND CHARLES WEISSMANN (ZURICH).

3 THE GTP_{ASE} FAMILY

Henry Bourne (U of Calif.)
Bert Vogelstein (Johns Hopkins)
Joseph Goldstein (U of Texas)
Frank McCormick (Cetus Corp.)
Robert Horvitz (MIT)

4 BIOLOGY OF CYTOKINES

Thomas Waldmann (NIH)
Tadatsugu Taniguchi (Osaka U)
Harvey Lodish (Whitehead Inst.)
Peter Besmer (Sloan-Kettering)
Lewis Williams (U of Calif.)

Joseph Goldstein and Michael Brown, who have made outstanding contributions to the understanding of heart disease and the fundamental biology of intracellular membrane traffic, have helped NATURE to organize an international conference to explore the cross-disciplinary implications of these advances and their possible therapeutic applications.

AMONG THE TOPICS WILL BE:

- * MEMBRANE RECEPTORS THAT REGULATE LYMPHOCYTE TRAFFIC AND IMMUNE RESPONSES
- * CELL BIOLOGY OF CHOLESTEROL METABOLISM
- * MEMBRANE TRANSPORTER DEFECTS IN CYSTIC FIBROSIS AND ANTIGEN PROCESSING
- * THE GTP_{ASE} FAMILY OF SIGNALLING PROTEINS IN NORMAL AND TUMOR CELLS

WHY YOU SHOULD ATTEND

Many diseases, including cancer, heart disease and immune deficiencies, can result from defects in membrane receptors or intracellular signalling pathways. With recent dramatic advances in the understanding of the biochemistry and the molecular and cellular biology of signal transduction pathways have come new insights into human disease. Conversely, the study of human genetic disease, and of the genetics of development in lower organisms, has provided insight into the fundamental biology of signalling systems. Our conference offers an opportunity to learn about these advances from experts with broad perspective.

nature CONFERENCE REGISTRATION FORM

NATURE'S 14TH INTERNATIONAL CONFERENCE

MEMBRANE RECEPTORS AND SIGNAL TRANSDUCTION
IN BIOLOGY AND MEDICINE
BOSTON, AT THE COPLEY PLAZA HOTEL NOVEMBER 14-15 1991

Please reserve _____ places for me at Nature's conference.

Total amount due: US\$ _____

Name _____ Title _____

Organization _____

Address _____

City/State/Zip _____

Country _____ Telephone _____

Check enclosed drawn on US Bank
(make check payable to: Nature)

Please charge my credit card
 AMEX VISA MasterCard

Card No. _____

Signature _____ Exp. date _____

Mail this form to:

Diana Berger
Nature Publishing Co.
65 Bleecker St.
New York, NY 10012
Phone: 212-477-9600

REGISTRATION FEES
Standard rate including reception:
\$395

Special rate for full-time
academics and government
employees only:
\$350

Cancellation policy:

All cancellations must be received in writing. Cancellations received before October 1 will be subject to a service charge of \$25. No refunds will be made after that date. Registrants who are unable to attend may, if they choose, send a substitute.

Sponsor's liability:

Should this conference be cancelled or postponed for any reason, the sponsor's liability is limited to the return of the registration fee.

AACR

