



National Institutes of Health
National Cancer Institute
Bethesda, Maryland 20892

Dear Retreat Participants:

On behalf of the National Cancer Institute's Center for Cancer Research Fellows & Young Investigators (CCR-FYI) Retreat Sub-Committee, it is my pleasure to welcome you to the Third Annual CCR-FYI Retreat. The purpose of this event is to promote interaction between fellows and young investigators at CCR, aid in your career development through presented lectures and workshops, and to increase your awareness of resources available to you within CCR, NCI and NIH.

With continued support from Dr. Barrett's office, we have worked to make this an exciting and productive retreat for all. Although our goals have not changed significantly since the inception of this retreat, we have made some changes in format and incorporated suggestions from last year's survey. The open forum of our panels and workshops has been designed to foster increased discussion among participants. You should find many opportunities for networking at both the oral and poster presentations as well as the evening mixer. In addition, this year we have added a "mentored lunch" to give you the opportunity to meet with a speaker or panelist informally over lunch. We are also excited to be able to offer awards to our outstanding presenters.

With approximately 240 submitted abstracts and over 400 registered participants, we already have the makings of a great event. We welcome your feedback regarding the retreat so that we can work to make next year's retreat even better. I encourage you to take advantage of your time here to learn what your peers are doing at CCR, share ideas, set up collaborations and enjoy!

Kathleen M. Dohoney, Ph.D.
Chair, Center for Cancer Research
Fellows & Young Investigators Association
National Cancer Institute

Arindam Dhar, M.D., Ph.D.
Sohrab Bodaghi, Ph.D.
Anna DiPietrantonio, Ph.D.
Retreat Sub-Committee Co-Chairs

Program

Wednesday, February 12, 2003

- 4:00 p.m. **Registration** (*Palmetto Ballroom Foyer*)
- 5:30 p.m.–7:00 p.m. **Dinner and Welcome** (*The Atrium*)
- 7:00 p.m.–7:30 p.m. **Opening Remarks—Plenary Session I** (*Palmetto Ballroom*)
Michael M. Gottesman, M.D., Laboratory of Cell Biology, CCR, NCI
- 7:30 p.m.–9:00 p.m. **Science Editors Panel—Publication Process and Career Path**
Angela Eggleston, Ph.D., Cell
Guy Riddihough, Ph.D., Science
Philip L. Bernstein, Ph.D., Journal of Experimental Medicine
Jeffrey M. Drazen, M.D., New England Journal of Medicine
- 9:00 p.m.–10:30 p.m. **Informal Mixer—Poster Session 1 Setup** (*Caribbean Hall*)
Mentored Lunch Sign Up (*Registration Desk*)

Thursday, February 13, 2003

- 7:00 a.m.–8:00 a.m. **Continental Breakfast** (*Palmetto Ballroom Foyer*)
- 8:00 a.m.–9:00 a.m. **Keynote Speaker—Plenary Session II** (*Palmetto Ballroom*)
Steven A. Rosenberg, M.D., Ph.D., Surgery Branch, CCR, NCI
- 9:30 a.m.–10:00 a.m. **CCR-FYI Overview**
Kathleen Dohoney, Ph.D., Chair, Fellows and Young Investigators
Steering Committee
Office of Training and Education, CCR
Jonathan Wiest, Ph.D., Associate Director
National Postdoc Association
Arti Patel, Ph.D., M.P.H.
- 9:30 a.m.–9:45 a.m. **Break**

9:45 a.m.–11:15 a.m.

Concurrent Oral Presentations I

Pharmacology and Chemistry (Cayman Room)

Elisabeth D. Martinez, Laboratory of Receptor Biology and Gene Expression, CCR, NCI

A Real Time Sensing Assay for Estrogen Receptor Ligands

Olivier Sordet, Laboratory of Molecular Pharmacology, CCR, NCI

The Topoisomerase I Inhibitor Camptothecin Induces the Phosphorylation of RNA Polymerase II Large Subunit

Zuben E. Sauna, Laboratory of Cell Biology, CCR, NCI

The Transport Cycle of P-Glycoprotein: Role of Highly Conserved Glutamate Residues

Lixin Wang, Laboratory of Molecular Pharmacology, CCR, NCI

Identification of Critical Replicator Elements within the Human β -Globin Replication Initiation Region

Scott R. Budihas, HIV Drug Resistance Program, CCR, NCI

Screening for Inhibitors of HIV-1 RNase H Activity

Carcinogenesis and Cancer Prevention (Dominica Room)

Arindam Dhar, Basic Research Laboratory, CCR, NCI-Frederick

Nitric Oxide Prevents Tumor Promotion and Suppresses Tumor Phenotype

Dina Paltoo, Cancer Prevention Studies Branch, CCR, NCI

IGF-2 Gene Polymorphisms and Polyp Status among Women

Sarah M. Umphress, Cell and Cancer Biology Branch, CCR, NCI

Increased Expression of C/EBP- α and SP-A in a TGF- β 1 and K-ras Mutated Mouse Model of Lung Cancer

Yun-Ling Zheng, Laboratory of Human Carcinogenesis, CCR, NCI

Gamma-Radiation-Induced G2/M Arrest as a Biomarker for Lung Cancer Risk in African-Americans: A Case-Control Study

Ye Zhou, Laboratory of Molecular Immunoregulation, CCR, NCI

Activation of Formylpeptide Receptor (FPR) in Malignant Astrocytoma Cells Promotes the Production of Vascular Endothelial Growth Factor

Immunobiology (Eleuthera Room)

Jean-Philippe Herbeuval, Experimental Immunology Branch, CCR, NCI

Non-Infectious HIV-1 Particles and AIDS Pathogenesis

Sheila Caldwell, Laboratory of Tumor Immunology and Biology, CCR, NCI

The Fas/Fas Ligand Pathway Is Important for Optimal Tumor Regression by Antigen-Specific CTL in Adoptive Immunotherapy of Experimental Lung Metastasis

Kebin Liu, Laboratory of Tumor Immunology and Biology, CCR, NCI

Regulation of ICSBP and Caspase-1 in the Sensitization of Human Colon Carcinoma Cells to Fas-Mediated Apoptosis by IFN- γ

Joanne Lumsden, Experimental Immunology Branch, CCR, NCI

Differential Requirements for Expression of B7 and CD40 on B Cells for T-Dependent Antibody Responses In Vivo

Maria Cecilia Rodriguez-Galan, Laboratory of Experimental Immunology, CCR, NCI-Frederick

Thymocytes Can Produce Th1/Th2 Cytokines after In Vitro Stimulation with Interleukin-18 (IL-18) in Combination with IL-2 or IL-12

Thursday, February 13, 2003 (cont'd)

	M	P	N	C	T	
4	4	3	4	2	17	Molecular and Cellular Biology (Palmetto Ballroom) Howard Doong, Laboratory of Pathology, CCR, NCI Post Ubiquitination Regulation by CAIR-1/BAG-3 Theresa M. Geiman, Laboratory of Receptor Biology and Gene Expression, CCR, NCI
3	2	3	2	2	12	Purification and Characterization of Novel Mammalian DNA Methyltransferase 3B (DNMT3B) Protein Complexes Linking Multiple Types of Epigenetic Modifiers Jurgen Heymann, Laboratory of Biochemistry, CCR, NCI
3	2	4	4	2	15	Three-Dimensional Structure of a Bacterial Membrane Transporter A-Mei Huang, Regulation of Cell Growth Laboratory, CCR, NCI-Frederick
4	3	2	2	2	13	The C/EBP δ Transcription Factor Is a Tumor Suppressor Implicated in the Maintenance of Chromosome Stability Sagar Sengupta, Laboratory of Human Carcinogenesis, CCR, NCI
3	3	3	2	2	13	BLM Helicase-Dependent Transport of p53 to Sites of Stalled DNA Replication Forks Modulates Homologous Recombination

11:15 a.m.–12:30 p.m.

Mentored Lunch (The Atrium)

Sign-up required for mentored table (Registration Desk)

12:30 p.m.–2:00 p.m.

Workshops (Concurrent)

Immigration/Visa (Eleuthera Room)

Deborah Fountain, B.S., NCI Foreign Liaison, International Services Branch

Science Careers (Palmetto Ballroom)

Pradeep Ghosh, Ph.D., Office of Technology Transfer and Planning, NIH

Julie A. Schneider, Ph.D., AAAS Government Policy Fellow, NCI

Laurel Haak, Ph.D., Editor, Postdoc Network, AAAS

Russ Fazio, Ph.D., Montgomery County Public Schools

Raymond Harris, Sc.D, Dmed., Forensic Science Program, Prince George's Community College

2:00 p.m.–2:15 p.m.

Break

2:15 p.m.–4:30 p.m.

Poster Session I (Caribbean Hall)

Genomics, Proteomics, and Bioinformatics

Cancer Models and Genetics

Clinical and Experimental Therapeutics

Signal Transduction and Gene Transcription

4:30 p.m.–6:00 p.m.

Keynote Speaker—Plenary Session III (Palmetto Ballroom)

Keith Yamamoto, Ph.D., Professor and Chairman, Cellular and Molecular Pharmacology, University of California, San Francisco

6:00 p.m.–7:00 p.m.

Dinner (The Atrium)

Sign-up for Friday Mentored Lunch (Registration Desk)

7:00 p.m.–9:00 p.m.

Women and Minorities Workshop—Plenary Session IV (Palmetto Ballroom)

Grace Yeh, Ph.D., Basic Research Laboratory, CCR, NCI

Joan P. Schwartz, Ph.D., Office of Intramural Research, OD, NIH

Elise Kohn, M.D., Laboratory of Pathology, CCR, NCI

Yolanda D. Mock, Ph.D., National Institute on Aging

9:00 p.m.

Poster Session II Set-Up (Caribbean Hall)

Friday, February 14, 2003

- 7:00 a.m.–8:00 a.m. **Breakfast (Palmetto Ballroom Foyer)**
- 8:00 a.m.–8:30 a.m. **Overview from the Director—Plenary Session V (Palmetto Ballroom)**
J. Carl Barrett, Ph.D., Director, Center for Cancer Research, NCI
- 8:30 a.m.–9:30 a.m. **Keynote Speaker**
Ronald D.G. McKay, Ph.D., Laboratory of Molecular Biology, NINDS
- 9:30 a.m.–10:00 a.m. **Break**
- 10:00 a.m.–11:30 a.m. **Concurrent Oral Presentations II**
- Genomics, Proteomics, and Bioinformatics (Eleuthera Room)**
- Mamuka Kvaratskhelia*, HIV Drug Resistance Program, CCR, NCI
Novel Approaches for Rapid Structural Analysis of Drug-Protein and Nucleic Acid-Protein Interactions in HIV
- Wafa Kammouni*, Laboratory of Comparative Carcinogenesis, CCR, NCI
Identification of Biomarkers in Lung Adenocarcinoma Cells by Surface-Enhanced Laser Desorption Ionization–Time-of-Flight Mass Spectrometric Assay
- Angela M. Patton*, Laboratory of Pathology, CCR, NCI
Characterization of Proteomic Profiling through Angiogenesis Models
- Jason Phan*, Macromolecular Crystallography Laboratory, CCR, NCI
Structural and Mechanistic Studies of the *Yersinia pestis* Protein Tyrosine Phosphatase
- Lixin Sun*, Neuro-Oncology Branch, CCR, NCI
Gene Expression Profiling of Brain Injury by Combined Suppression Subtractive Hybridization (SSH) and cDNA Microarray Analysis
- Cancer Models and Genetics (Dominica Room)**
- Wenbin Ma*, Laboratory of Immunobiology, CCR, NCI
Induction of Hepatic Hemangiomas in a Mouse Model by Tamoxifen-Inducible Cre Recombinase-Mediated VHL Inactivation
- Osarenoma Olomu*, Pediatric Oncology Branch, CCR, NCI
Dependence of Osteosarcoma Metastasis on Ezrin, a Membrane-Cytoskeleton Linker Protein
- Binwu Tang*, Laboratory of Cell Regulation and Carcinogenesis, CCR, NCI
TGF- β Switches from Tumor Suppressor to Pro-Oncogenic Factor During Breast Cancer Progression
- Santiago Silva*, Laboratory of Genetics, CCR, NCI
Bcl-2 and IL-6 Accelerate *C-myc*-Driven Plasma Cell Tumor Development in Mice
- Vijayachandra Kinnimulki*, Laboratory of Cellular Carcinogenesis and Tumor Promotion, CCR, NCI
Smad3 Regulates Senescence and Malignant Conversion in a Mouse Skin Carcinogenesis Model

Clinical and Experimental Therapeutics (Cayman Room)

Sylvia S.W. Ng, Cancer Therapeutics Branch, CCR, NCI

Antiangiogenic Activity of N-Substituted and Tetrafluorinated Thalidomide Analogues

Hasan Zeytin, Laboratory of Tumor Immunology and Biology, CCR, NCI

Chemoimmunoprevention of Spontaneously Arising Intestinal Tumors in Mice Following the Combined Administration of Celecoxib and a Tumor Vaccine

Ai-Min Hui, Neuro-Oncology Branch, CCR, NCI at National Institute of Neurological Disorders and Stroke, NIH

Involvement of ER γ in SERM-Induced Apoptosis in ER Negative Glioma Cells

Claudia M. Palena, Laboratory of Tumor Immunology and Biology, CCR, NCI

Enhanced Activation of Antigen-Specific T Cells via Recombinant Avipox Vector-Mediated Expression of Three Costimulatory Molecules (B7-1, ICAM-1, and LFA-3) in Human B Cells

Hua Zhang, Pediatric Oncology Branch, CCR, NCI

Tumor Expression of 4-1BB Ligand: Sustenance for Tumor-Lytic CD8⁺T Cells?

Signal Transduction and Gene Transcription (Palmetto Ballroom)

Fedor Kouzine, Laboratory of Pathology, CCR, NCI

DNA Supercoiling during Transcription

Markey C. McNutt, Laboratory of Receptor Biology and Gene Expression, CCR, NCI

Dynamic Profiling of Transcription: An Integrated Bioinformatics Approach to Gene Regulation

Idalia Montano, Laboratory of Receptor Biology and Gene Expression, CCR, NCI

Understanding Signal Transduction Integration through Kinetic Analysis of Promoter Occupancy

Thangaraju Muthusamy, Regulation of Cell Growth Laboratory, CCR, NCI-Frederick

The Transcription Factor C/EBP δ Induces Cell Death in MCF7 Human Breast Cancer Cells

Youping Sun, Basic Research Laboratory, CCR, NCI

Binding of smads to Notch4/Int3

11:30 a.m.–12:30 p.m.

Mentored Lunch (The Atrium)

Sign-up required for mentored table

12:30 p.m.–2:30 p.m.

Poster Session II (Caribbean Hall)

Pharmacology and Chemistry

Carcinogenesis and Cancer Prevention

Immunobiology

Molecular and Cellular Biology

2:30 p.m.–3:00 p.m.

Awards and Closing—Closing Plenary Session (Palmetto Ballroom)