



National Institutes of Health  
National Cancer Institute  
Bethesda, Maryland 20892

Dear Fellows and Young Investigators:

On behalf of the National Cancer Institute, Center for Cancer Research, Fellows and Young Investigators (CCR-FYI) Association, it is my great pleasure to welcome you to the Fourth Annual CCR-FYI Retreat. The Annual Retreat is designed (i) to provide a forum for the presentation of postdoctoral research, (ii) to cultivate interaction among fellows, (iii) to address issues pertinent to career development, (iv) to include presentations from successful, renowned biomedical researchers, and (v) to increase awareness about the resources available within CCR, NCI, and NIH.

Thank you to those of you who responded to our call for keynote speaker nominations, workshop suggestions and for all your comments. Having incorporated these ideas along with those obtained from the 2003 retreat survey into the retreat program, we hope that the 2004 Annual CCR-FYI Retreat covers at least some of the issues most relevant to you. Your involvement in CCR-FYI Association, your suggestions and contributions are very welcome and ensure the success of our meeting and our mission. We would also like to thank Dr. J. Carl Barrett and Dr. Jonathan S. Wiest for their tremendous support.

The Fourth Annual CCR-FYI Retreat has 440 registered participants and 227 submitted abstracts. The program includes talks from renowned speakers, oral and poster presentations from fellows, member-initiated workshop sessions with a diverse array of topics and mentored lunch sessions that provide an opportunity to meet with a speaker or panelist informally. Additionally, we are excited to offer eight travel awards to fellows with outstanding oral and poster presentations. For the first time this year, fellows will also have a unique opportunity to participate in an open forum with National Postdoctoral Association (NPA) Executive Director, Alyson Reed. Finally, CCR-FYI is your association and its success reflects the volunteer efforts of members such as yourself. Our association depends on your input and I encourage you to contribute and send your comments to [nciccrfyi@mail.nih.gov](mailto:nciccrfyi@mail.nih.gov). Information regarding the CCR-FYI Association can be found online at <http://ccr.ncifcrf.gov/careers/fellows/default.asp>.

Cem Elbi, M.D., Ph.D.  
Chair  
Fellows and Young Investigators Association  
Center for Cancer Research  
National Cancer Institute

Melissa Maderia, Ph.D.  
Kwang Suh, Ph.D.  
Retreat Sub-Committee Co-Chairs

## Program

*Tuesday, March 9, 2004*

- 3:00 p.m.            **Registration** (*Promenade*)
- 5:00 p.m.            **Opening Remarks and CCR Overview** (*Harrison-Taylor Ballroom*)  
*Cem Elbi, M.D., Ph.D. and Melissa Maderia, Ph.D.*
- 5:15 p.m.            **Dinner**
- 6:30 p.m.            **Plenary Session I** (*Auditorium*)  
*Moderators: Melinda Merchant, M.D., Ph.D. and Ramalakshmi Darba, Ph.D.*
- Keynote Speaker: Platinum Anticancer Drug Research in the Hands of a Chemist**  
*Stephen J. Lippard, Ph.D., Massachusetts Institute of Technology*
- 7:30 p.m.            **Break**
- 8:00 p.m.            **Concurrent Workshops**
- Career Workshop: Industry, Science, and Academia** (*Auditorium*)  
*Moderators: Melissa Wilson, Ph.D. and Jill Paterson, Ph.D.*
- Industry:**  
*Matthew Lorenzi, Ph.D., Bristol-Meyers Squibb, Inc.*  
*Stephen A. Scaringe, Ph.D., Dharmacon, Inc.*
- Academia:**  
*Lizabeth A. Allison, Ph.D., College of William and Mary*
- Science:**  
*Grace Yeh, Ph.D., National Cancer Institute*
- Negotiating Skills for the Job Seeker Workshop** (*Amphitheater*)  
*Moderators: Kathleen Dohoney, Ph.D. and Anne Welcker, Ph.D.*  
*Julie White, Ph.D., Julie White and Associates*
- 9:00 p.m.            **Informal Mixer** (*Promenade*); **Poster Session 1 Setup** (*Adams Ballroom*)  
**Sign-up for Wednesday Mentored Lunch** (*Registration Desk*)

*Wednesday, March 10, 2004*

- 7:00 a.m.            **Continental Breakfast** (*Conference Center Foyer*)
- 8:00 a.m.            **Plenary Session II** (*Auditorium*)  
*Moderators: Valance Washington, Ph.D. and Swati Choksi, Ph.D.*
- Keynote Speaker: Mechanisms Governing the Formation of Human Cancers**  
*Robert A. Weinberg, Ph.D., Whitehead Institute of Biomedical Research, MIT*
- 9:00 a.m.            **Break**
- 9:30 a.m.            **Poster Session I** (*Adams Ballroom*)  
Pharmacology and Chemistry  
Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention I

*Wednesday, March 10, 2004 (cont'd)*

- 9:30 a.m. **Poster Session I (cont'd)**  
Immunology and Genetics  
Molecular and Cell Biology I
- 11:30 a.m. **Mentored and General Lunch (Harrison-Taylor Ballroom)**  
Sign-up required for mentored table
- Oral Presentation I Setup (See Below)**
- 1:00 p.m. **Concurrent Oral Presentations I**  
**Pharmacology and Chemistry (Room 2-3)**  
*Moderators: Ramalakshmi Darba, Ph.D. and Melissa Maderia, Ph.D.*
- V. Ashutosh Rao, Laboratory of Molecular Pharmacology*  
Functional Status of the Bloom's Syndrome Protein (BLM) Alters Topoisomerase I-DNA Cleavage Complex Formation and Repair Response to Camptothecin
- Krishnamachary Nandigama, Laboratory of Molecular Pharmacology*  
Large-Scale Purification of Human P-Glycoprotein (ABCB1)
- Smitha Antony, Laboratory of Molecular Pharmacology*  
Differential Trapping of Topoisomerase I by the Indenoisoquinoline MJ-III-65 and Camptothecin: Activity Against Camptothecin-Resistant Topoisomerases I
- Douglas D. Thomas, Radiation Biology Branch*  
HIF-1 $\alpha$  and p53 Are Regulated by Distinct Threshold Nitric Oxide Concentrations in Human Breast MCF7 Cells
- Dehui Duan, Laboratory of Medicinal Chemistry*  
Combinatorial Synthesis, Quality Control, and Biological Evaluation of Diacylglycerol (DAG)-Lactone Libraries—Protein Kinase C (PKC) Isozyme-Specific Ligands
- Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention (Amphitheater)**  
*Moderators: Kwang Suh, Ph.D. and Margaret Pratt, Ph.D.*
- Arti C. Patel, Laboratory of Tumor Immunology and Biology*  
Effect of Dietary Modifications on the Immune Response in Tumor Bearing and Wild-Type Mice
- Brenda J. Boersma, Laboratory of Human Carcinogenesis*  
Breast Cancer Risk Associated with Allele Variant Genes in the Estrogen Pathway
- Lamia Benbrahim-Tallaa, Laboratory of Comparative Carcinogenesis, NCI at NIEHS*  
Androgen Metabolism and Estrogen Receptor Expression in Human Epithelial Prostatic Cells After Chronic Arsenic Exposure
- Arindam Dhar, Laboratory of Cancer Prevention*  
Low-Dose Nitric Oxide (NO) Prevents Transformation and Reverts Transformation-Sensitive Phenotype

**Wednesday, March 10, 2004 (cont'd)**

*Jyotsna Pandey, Cell and Cancer Biology Branch*

Modulation of Tumorigenesis by C/EBP- $\beta$  and C/EBP- $\gamma$  in a TGF- $\beta$ 1 and K-ras Mutated Mouse Model of Lung Cancer

**Immunobiology and Genetics (Room A-B)**

*Moderators: Valance Washington, Ph.D. and Katheen Dohoney, Ph.D.*

*Maria Cecilia Rodriguez-Galan, Laboratory of Experimental Immunology*

Immunomodulatory Changes in Lymphocyte Subsets in Primary and Secondary Lymphoid Organs After Hydrodynamic Injection of IL-12 and IL-18 cDNAs

*Gareth E. Davies, Laboratory of Experimental Immunology*

Variegated Gene Expression: Identification of a Programmable Binary Switch

*Lawrence A. Wolfraim, Laboratory of Cell Regulation and Carcinogenesis*

Disparate Effects of p27<sup>Kip1</sup> Deletion on Proliferation of Naïve CD4<sup>+</sup> vs. CD8<sup>+</sup> T Cells Is Due to an Altered Threshold for CD28-Mediated Co-Stimulation in CD8<sup>+</sup> T Cells

*Jesus M. Salvador, Basic Research Laboratory*

The p53-Effector Gene Gadd45a Inhibits the T-Cell p38 Activation Pathway

*Kahori Kurosaka, Laboratory of Molecular Immunoregulation*

Mouse Cathelin-Related Antimicrobial Peptide (CRAMP) Uses FPRL1/mFPR2 as the Receptor to Chemoattract Leukocytes

**Molecular and Cellular Biology I (Auditorium)**

*Moderators: Susan Lindtner, Ph.D. and Sarah Kolla, M.D., Ph.D.*

*Thomas Sebastian, Laboratory of Protein Dynamics and Signaling*

C/EBP $\beta$  Mediates Oncogenic Ras-Induced Proliferation Arrest in Primary Fibroblasts

*Michael S. Patrick, Laboratory of Cellular Oncology*

A Novel Therapy for Cervical Cancer Using Spliceosome-Mediated RNA Trans-splicing (SmaRT<sup>TM</sup>)

*Hyung-Chan Suh, Basic Research Program, SAIC*

C/EBP $\alpha$  Inhibits Erythroid Development and Differentiation by Decreasing EpoR Expression

*Thangaraju Muthusamy, Laboratory of Protein Dynamics and Signaling*

The Transcription Factor Cebp $\delta$  Induces Mammary Epithelial and Breast Tumor Cell Death

*Hatem E. Sabaawy, Experimental Transplantation and Immunology Branch*

Characterization of Canine Mesenchymal Stem Cells with Multilineage Potential

2:45 p.m.

**Plenary Session III (Auditorium)**

*Moderators: Swati Choksi, Ph.D. and Anne Welcker, Ph.D.*

**Wednesday, March 10, 2004 (cont'd)**

- 2:45 p.m.           **Keynote Speaker: RNAi-Mediated Epigenetic Control of the Genome**  
*Shiv Grewal, Ph.D., National Cancer Institute*
- 3:45 p.m.           **Break**
- 4:00 p.m.           **Concurrent Workshops**
- Time Mastery (Management Skills) Workshop (Amphitheater)**  
                          *Moderators: Susan Lindtner, Ph.D. and Chandranu Dash, Ph.D.*  
                          *Corey Edwards, CRW, CCMC, CECC, Partnering for Success*
- Being a Professor: What You Thought You Knew! (Auditorium)**  
                          *Moderators: Robert Dean, M.D. and Melinda Merchant, M.D., Ph.D.*  
                          *Marcelo G. Kazanietz, Ph.D., University of Pennsylvania School of Medicine*
- 5:15 p.m.           **Dinner (Harrison-Taylor Ballroom)**  
**Sign-up for Thursday Mentored Lunch (Registration Desk)**  
**Poster Session II Setup (Adams Ballroom)**
- 6:45 p.m.           **Plenary Session IV (Auditorium)**  
                          *Moderators: Melissa Maderia, Ph.D. and Humcha Hariprakasha, Ph.D.*
- Office of the Director Address to CCR and Open Questions**  
                          *J. Carl Barrett, Ph.D., Director, Center for Cancer Research, NCI*
- 7:30 p.m.           **Poster Session II (Adams Ballroom)**  
                          Molecular and Cell Biology II  
                          Genomics, Proteomics, and Bioinformatics  
                          Clinical and Translational Research  
                          Signal Transduction and Gene Transcription  
                          Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention II

**Thursday, March 11, 2004**

- 7:00 a.m.           **Continental Breakfast (Conference Center Foyer)**
- 8:00 a.m.           **Concurrent Workshops**
- Grant Writing Workshop (Auditorium)**  
                          *Moderators: Chava Kimchi-Sarfaty, Ph.D. and Nadia Khan, M.B.B.S.*  
                          *Florence Farber, Ph.D., National Cancer Institute*  
                          *Colette Freeman, Ph.D., National Cancer Institute (former)*
- Team Science Workshop (Amphitheater)**  
                          *Moderators: Valance Washington, Ph.D. and Edwin Posadas, M.D.*  
                          *Howard Gadlin, Ph.D., National Institutes of Health*  
                          *L. Michelle Bennett, Ph.D., National Cancer Institute*
- 9:15 a.m.           **Plenary Session V (Auditorium)**  
                          *Moderators: Cem Elbi, M.D., Ph.D. and Kathleen Dohoney, Ph.D.*

*Thursday, March 11, 2004 (cont'd)*

**Keynote Speaker**

*J. Carl Barrett, Ph.D., Director, Center for Cancer Research, NCI*

10:30 a.m.

**Break**

10:45 a.m.

**Concurrent Oral Presentations II**

**Molecular and Cell Biology II (Auditorium)**

*Moderators: Chandranu Dash, Ph.D. and Susan Lindtner, Ph.D.*

*John N. Bradsher, Laboratory of Human Carcinogenesis*

The Transcription-Coupled Repair Protein CSB Is Recruited to the Human p53 Gene *In Vivo*

*Rebecca Dumont, Laboratory of Cellular Carcinogenesis and Tumor Promotion*

mtCLIC/CLIC4, a p53-Regulated Chloride Channel Protein, Induces Apoptosis in an Organelle-Specific Manner

*Tao Fan, Laboratory of Molecular Immunoregulation*

Role of Lsh in the Regulation of Gene Imprinting

*Lixin Sun, Neuro-Oncology Branch*

A Novel Injury-Induced Gene Was Identified in the Brain by Suppression Subtractive Hybridization Analysis

*Irina Tretyakova, Basic Research Laboratory*

NXF Export Receptors Interact with Neuron-Specific Microtubule-Associated Proteins

**Genomics, Proteomics, and Bioinformatics and Clinical and Translational Research Combined (Room 2-3)**

*Moderators: Nadia Khan, M.B.B.S. and Anne Welcker, Ph.D.*

*Sheelu Varghese, Laboratory of Cellular Carcinogenesis and Tumor Promotion*  
Glial Cell-Derived Neurotrophic Factor (GDNF) Mediates Vascular Remodeling in Aged Mice

*Mong-Hsun Tsai, Radiation Biology Branch*

Gene Expression Profiles Following Radiation in Different p53 Status Human Lymphoblast Cell Lines Revealed p53R2 Protein Plays a Role in Radiation-Induced Mutagenesis

*Gallya Gannot, Laboratory of Pathology*

Quantitative Proteomic Analysis of Whole Mount Prostate Tissue Sections

*Melinda Merchant, Pediatric Oncology Branch*

Anti-Tumor and Anti-Metastatic Effects of Interferon and TRAIL in a Xenograft Model of Ewing's Sarcoma

*Robert Dean, Experimental Transplantation and Immunology Branch*

Response to Salvage Chemotherapy Influences Outcome of Reduced-Intensity Allogeneic Stem Cell Transplantation (RIST) for Non-Hodgkin's Lymphoma (NHL) but Does Not Preclude Durable Survival

Thursday, March 11, 2004 (cont'd)

**Signal Transduction and Gene Transcription (Room A-B)**

*Moderators: Cem Elbi, M.D., Ph.D. and Anne Welcker, Ph.D.*

*Mi Jung Lim, Cell and Cancer Biology Branch*

Transforming Growth Factor- $\beta$ 1 Induces Apoptosis in Lung Alveolar Type II Epithelial Cells by a Smad-Dependent Signaling Mechanism

*Yong-Sik Bong, Laboratory of Protein Dynamics and Signaling*

Tyrosine Residue 298 in EphrinB1 is Critical for an Interaction with Grb4 Adaptor Protein

*Jennifer Wessells, Laboratory of Protein Dynamics and Signaling*

C/EBP $\beta$  Is Essential for Survival of Myeloid Tumor Cells

*Irene Collins, Laboratory of Receptor Biology and Gene Expression*

Profiling the Molecular Dynamics of Transcriptional Targeting in Activated T Cells

*Hyun-Shik Lee, Laboratory of Protein Dynamics and Signaling*

Dishevelled Is Essential for EphrinB1 Signaling During Eye Field Formation

**Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention II**

*(Amphitheater)*

*Moderators: Margaret Pratt, Ph.D. and Kwang Suh, Ph.D.*

*Jingbo Pi, Laboratory of Comparative Carcinogenesis*

Arsenic-Induced Transformation Causes Generalized Resistance to Apoptosis in Cultured Human Keratinocytes

*Jui Pandhare, Laboratory of Comparative Carcinogenesis*

Up-Regulation of Proline Oxidase Transcriptional Activity by Peroxisome Proliferator-Activated Receptor-Gamma (PPAR- $\gamma$ )

*Wei Liao, Dermatology Branch*

Kaposi's Sarcoma-Associated Herpesvirus (KSHV) Infection of Human Dermal Microvascular Endothelial Cells (HDMEC) Causes Increased Cellular Proliferation, Decreased Cellular Adhesion, and Marked Up-Regulation of Angiogenic Growth Factors

*Lambratu Rahman, Basic Research Laboratory*

Thymidylate Synthase as an Oncogene: A Novel Role for an Essential DNA Synthesis Enzyme

*Vijayachandra Kinnimulki, Laboratory of Cellular Carcinogenesis and Tumor Promotion*

Phenotypic Determinants of Susceptibility to Carcinogenesis in Mouse Skin Cancer Model

12:30 p.m.

**Mentored and General Lunch (Harrison-Taylor Ballroom)**

Sign-up required for mentored table

2:00 p.m.

**Plenary Session VI (Auditorium)**

*Moderators: Cem Elbi, M.D., Ph.D. and Robert Dean, M.D.*

*Thursday, March 11, 2004 (cont'd)*

**Keynote Speaker: The Clarion Call of the Mad Cow**

*Stanley B. Prusiner, M.D., University of California, San Francisco  
1997 Nobel Laureate in Medicine*

3:00 p.m.

**NPA and the CCR-FYI Open Forum**

*Moderators: Arti Patel, Ph.D., M.P.H. and Humcha Hariprakash, Ph.D.  
Alyson Reed, M.A., National Postdoctoral Association*

4:15 p.m.

**Awards and Closing**