



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 Fifth Annual CCR-FYI Retreat. We hope that you will enjoy the science presentations of the renowned keynote speakers, benefit from the tremendous workshops that have been assembled, and learn more about the exciting research being done at the Center for Cancer Research through the posters and oral presentations of your colleagues. This is a great opportunity to meet other NCI fellows, forge friendships, and share science. In addition, there are many scientific resources available to fellows at the NCI, and the poster sessions and various workshops provide excellent opportunities to learn more about them. We hope you will take advantage of mealtimes, etc., to have informal discussions with the keynote speakers and workshop hosts.

The CCR-FYI is your postdoctoral association. Not only is your input welcomed, it is needed. There are more than 1,000 fellows at CCR, yet only 40 currently serve on the steering committee. You can make an impact by joining the steering committee and being involved with the organization of the retreat. We encourage your comments on ways to make CCR an even better place to be a postdoctoral fellow. Your answers to the retreat survey are heard by the administration. *The Scientist* reported that postdocs picked the NCI as the 7th best place to be a postdoctoral fellow in 2003 and the 4th best place in 2004. Because of your comments and suggestions, and the tremendous support that we receive from the Office of the Director, Dr. J. Carl Barrett and Dr. Jonathan S. Wiest, CCR continues to be in the top ten. We thank those of you who responded to the call for keynote speaker nominations, workshop suggestions, and for all your comments. Your involvement in the CCR-FYI association, your suggestions, and your contributions are greatly appreciated and ensure the success of our retreat and our mission.

We are excited that again this year we are able to offer eight travel awards to fellows for outstanding oral and poster presentations. During this retreat, fellows will also have an opportunity to participate in an open forum with the National Postdoctoral Association (NPA) Chair, Keith Micoli. Finally, CCR-FYI is your association and its success reflects the volunteer efforts of members such as yourself. The CCR-FYI association depends on your input, so I encourage you to get involved. 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>.

Melissa Maderia, Ph.D.  
Chair  
Fellows and Young Investigators Association  
Center for Cancer Research  
National Cancer Institute

Kevin W. Chang, Ph.D.  
Susan Lindtner, Ph.D.  
Derrick Cox, M.D.  
Retreat Sub-Committee Co-Chairs

# CCR Fellows and Young Investigators Retreat 2005

## PROGRAM

**Monday, February 28, 2005**

- 2:00 p.m.      **Registration (Promenade)**
- 4:00 p.m.      **Plenary Session I (Auditorium)**  
Opening Remarks and CCR Overview
- 4:15 p.m.      **Keynote Speaker: Director's Address to CCR-FYI**  
*Andrew von Eschenbach, M.D., Director, National Cancer Institute*  
*Moderators: Derrick Cox, M.D., and Jeffrey Chiang, Ph.D.*
- 5:15 p.m.      **National Postdoctoral Association: Working for Change**  
*Keith Micoli, Ph.D., University of Alabama and NPA*
- CCR-FYI Open Forum**  
*Moderators: Katherine Turner, Ph.D., and Margaret Pratt, Ph.D.*
- 6:15 p.m.      **Dinner (Adams-Taylor Ballroom)**
- 7:30 p.m.      **Concurrent Workshop I**
- 1. Principles of Investing: Introduction to Money Management for Trainees**  
*(Amphitheater)*  
*Meritt Tollefson, Realtor, Coldwell Banker Residential Brokerage*  
*Terry Merchant, Personal Financial Analyst, Primerica Financial Services*  
*Moderators: Swati Choksi, Ph.D., and Melinda Merchant, M.D., Ph.D.*
- 2. International Affairs (Auditorium)**  
*Moderators: Maja A. Bumke, Ph.D., and Anil Shanker, Ph.D.*
- Sorting out Visas at the NIH**  
*Deborah Fountain, Special Programs Manager, NCI*
- Overview of Immigration Responsibilities at NIH**  
*Amy Powers, Division of International Services, NIH*  
*Candelario Zapata, Division of International Services, NIH*
- Non-Immigrant Visa Issues for SAIC-Frederick Employees**  
*Deborah Higdon, Employment Specialist, SAIC-Frederick, Inc.*
- Research Career and Training Opportunities in Europe**  
*Mary Kavanagh, Ph.D., European Commission Delegation*
- Biomedical Research in France: The Involvement of INSERM**  
*Jean-Jacques Lawrence, Ph.D., Embassy of France*
- Career Opportunities in Germany**  
*Peter Gottstein, Embassy of Germany*

**Research and Development Infrastructures in Korea**

*Moo Park, Ph.D., National Institute on Drug Abuse, Korea Scientist Association*

**Fogarty International Center: Grants for Returning Scientists**

*Zakir Bengali, Fogarty International Center, Office for the South Asia Region including India*

**Opportunity and Challenge: Welcome back to Homeland**

*Jing-An Zhang, Embassy of the Peoples Republic of China*

**Opportunities for Health Research Careers in Canada**

*Karl Tibelius, Ph.D., Canadian Institutes of Health Research*

9:00 p.m. **International Affairs and Embassy Information Exhibits (Promenade)**  
**Informal Mixer (Promenade)**  
**Poster Session I Setup (Harrison Ballroom)**  
**Mentored Lunch Sign-up (Registration)**

**Tuesday, March 1, 2005**

7:00 a.m. **Continental Breakfast**  
**Registration Open**

8:00 a.m. **Plenary Session II (Auditorium)**

**Keynote Speaker**

*Rita Colwell, Ph.D., Founding President of the University of Maryland Biotechnology Center*

*Moderators: Melinda Merchant, M.D., Ph.D., and Jeffrey Chiang, Ph.D.*

9:00 a.m. **Break**

9:15 a.m. **Concurrent Workshop II**

**1. Career Workshop Panel (Auditorium)**

*Moderators: Kwang Suh, Ph.D., and Praveen Arany, D.D.S.*

**The Academia-Government Life Cycle: Margin and Mission**

*C. Norman Coleman, M.D., Laboratory Chief, Radiation Oncology Branch, NCI*

**From NCI Fellow to Industry and Back**

*Stefan Ambs, Ph.D., Tenure-Track Investigator, Laboratory of Human Carcinogenesis, NCI*

**Career Path Decisions in the Biotechnology World**

*Robert Balderas, Vice President, BD-Biosciences*

**Scientific Editing**

*Nadia Cervoni, Ph.D., Associate Editor, Nature Biotechnology*

**2. Grantsmanship (Amphitheater)**

*Moderators: Melissa Maderia, Ph.D., and Tamaro Hudson, Ph.D., M.P.H.*

**Mock Review of K22 Applications**

*Robert Bird, Ph.D., Resources and Training Review Branch, NCI*

- 10:30 a.m. **Poster Session I (Harrison Ballroom)**  
**Pharmacology, Chemistry, and Virology**  
**Carcinogenesis, Cancer Models, Epidemiology, and Cancer Prevention**  
**Signal Transduction and Gene Transcription**
- 12:00 p.m. **General and Mentored Lunch and Oral Presentation 1 Setup (Adams-Taylor Ballroom)**
- 1:30 p.m. **Plenary Session III (Auditorium)**  
**Keynote Speaker: Applications of Clinical Proteomics at the Bedside**  
*Emanuel F. Petricoin, Ph.D., Co-Director, NCI-FDA Clinical Proteomics Program*  
*Moderators: Valance Washington, Ph.D., and Margaret Pratt, Ph.D.*
- 2:30 p.m. **Break**
- 2:45p.m. **Concurrent Oral Presentations I**
- 1. Pharmacology, Chemistry, and Virology (Room 2-3)**  
*Moderators: Chris J. Michejda, Ph.D., and Edwin Posadas, M.D.*
- Sohrab Bodaghi, HIV and AIDS Malignancy Branch*  
 HPV16 E2 and E6 Proteins Bind RNA and Inhibit RNA Splicing *In Vitro* Through Interaction with SR Proteins.
- Vladimir Majerciak, HIV and AIDS Malignancy Branch*  
 The N-Terminal Region of KSHV ORF57 Contains Major Determinants for Nuclear Localization and Posttranscriptional Activation of Gene Expression
- Sachindra S. Patil, Laboratory of Medicinal Chemistry*  
 Examination of Bioisosteric Analogs of Aryldiketo Acids as HIV-1 Integrase Inhibitors Related to the Merck Clinical Candidate L-870810
- Jean-Philippe Therrien, Dermatology Branch*  
 A Skin Gene Therapy Model for Systemic Delivery of a Therapeutic Gene Product
- Ling-hua Meng, Laboratory of Molecular Pharmacology*  
 DNA-Protein Crosslinks and Replication-Dependent Histone H2AX Phosphorylation Induced by Aminoflavone (NSC 686288), a Novel Anticancer Agent Active Against Human Breast Cancer Cells
- 2. Carcinogenesis, Cancer Models, Epidemiology, and Cancer Prevention (I) (Room A-B)**  
*Moderators: Lee Helman, M.D., and Martin Guimond, Ph.D.*
- David Mack, Mammary Biology and Tumorigenesis Laboratory*  
 Expression of Truncated Int6/eIF3e in Mammary Alveolar Epithelium Leads to Persistent Hyperplasia and Tumorigenesis
- Yu-an Yang, Laboratory of Cellular and Molecular Biology*  
 Smad3 Sensitizes Hepatocytes to FAS-Induced Apoptosis and Protects Liver from Chemically Induced Carcinogenesis
- Neelima Singh, Laboratory of Cell Regulation and Carcinogenesis*  
 An Important Role for the TGF- $\beta$  Intermediate Smad3 as a Suppressor of Leukemogenesis
- Jing Hu, Gene Regulation Section, Laboratory of Cancer Prevention*  
 NF- $\kappa$ B in Oncogenesis and Cancer Prevention: Role of p65 Phosphorylation

*Jyotsna Pandey, Cell and Cancer Biology Branch*  
Modulation of Smad3 and Bcl2 in Tumorigenesis and Tumor Progression in a K-ras Mutated Mouse Model of Lung Cancer in the Presence of TGF- $\beta$ 1 Heterozygosity

**3. Signal Transduction and Gene Expression (Amphitheater)**

*Moderators: Stanley Hamilton, M.D., Ph.D., and Swati Choksi, Ph.D.*

*Gillian Whittaker, Laboratory of Experimental Immunology*  
A Novel System for Examining TREM Signaling in the Myeloid Compartment

*Pal Kaposi-Novak, Laboratory of Experimental Carcinogenesis*  
HGF/c-Met Signaling Pathway Regulates Genes Involved in Epithelial Homeostasis in Primary Hepatocytes.

*Ana L. Romero, Laboratory of Experimental Immunology*  
Requirement for Stat 2 in Type I-Interferon-Induced Apoptosis

*Kelly C. Martin, Pediatric Oncology Branch*  
BDNF Stimulates Invasion of Neuroblastoma Tumor Cells via Activation of TrkB Through the PI-3 Kinase and MAPK Pathways

*Motozo Yamashita, Laboratory of Cellular and Molecular Biology*  
Ubiquitin Ligase Smurf1 Controls Osteoblast Activity and Bone Homeostasis by Targeting MEKK2 for Degradation

**4. Molecular and Cell Biology (I) (Auditorium)**

*Moderators: Barbara Vonderhaar, Ph.D., and Chandravanu Dash, Ph.D.*

*Alexandra Zoltan-Jones, Mammary Biology and Tumorigenesis Laboratory*  
Notch Affects Mammary Tumorigenesis Through PDGFR Family Tyrosine Kinase Signaling

*Sung-Hyeok Hong, Tumor and Metastasis Biology Section*  
The Membrane Cytoskeleton Linker Ezrin Provides a Survival Advantage to Metastatic Osteosarcoma Cells

*Seung-Beom Hong, Laboratory of Immunobiology*  
Mitotic Arrest and Cellular Senescence by the Acute Inactivation of the VHL Gene

*Reema Wahdan, Pediatric Oncology Branch*  
Expression of Human Unc-33-like Phosphoprotein (Ulip/CRMP-4/TUC4) and Family Members in Neuroblastoma During Retinoid-Induced Differentiation

*Julie L. Bronder, Women's Cancers Section, Laboratory of Pathology*  
Identification of Therapeutic Targets in Breast Cancer Brain Metastases

4:30 p.m. **Plenary Session IV (Auditorium)**

4:30 p.m. **Keynote Speaker: mTor—A Molecular Determinant of Aggressive Behavior in Sarcomas**  
*Lee Helman, M.D., Chief, Pediatric Oncology Group, CCR, NCI*  
*Moderators: Praveen Arany, D.D.S., and Sohrab Bodaghi, Ph.D.*

5:15 p.m. **Office of the Director Address to CCR/Open Questions**  
*Robert Wiltrot, Ph.D., Principal Deputy Director, Laboratory of Experimental Immunology, CCR, NCI-Frederick*  
*Moderators: Kwang Suh, Ph.D., and Praveen Arany, D.D.S.*

- 6:00 p.m. **Dinner** (*Adams-Taylor Ballroom*)  
**Poster Session II Set up** (*Harrison Ballroom*)
- 7:00 p.m. **Poster Session II** (*Harrison Ballroom*)  
**Molecular and Cell Biology**  
**Genomics, Proteomics, Bioinformatics**  
**Clinical and Translational Research**  
**Immunology and Genetics**
- 8:30 p.m. **Plenary Session V** (*Auditorium*)
- Special Seminar: Academia or Industry? The Decision Process**  
*David Jensen, monthly writer for Science NextWave and Managing Director for CareerTrax Inc.*  
*Moderators: Susan Lindtner, Ph.D., and Kathleen Dohoney, Ph.D.*

**Wednesday, March 2, 2005**

- 7:00 a.m. **Continental Breakfast** (*Adams-Taylor Ballroom*)  
**Registration Open** (*Promenade*)
- 8:00 a.m. **Plenary Session V** (*Auditorium*)
- 8:00 a.m. **Keynote Speaker: Opportunities and Challenges in the New Era of Cancer Research**  
*Margaret Foti, Ph.D., M.D. (h.c.), Chief Executive Officer, American Association for Cancer Research (AACR)*  
*Moderators: Arti Patel, Ph.D., M.P.H., and Arindam Dhar, M.D., Ph.D.*
- 9:00 a.m. Break
- 9:15 a.m. **Concurrent Oral Presentation II**
- 1. Molecular and Cell Biology (II)** (*Auditorium*)  
*Moderators: Tom Misteli, Ph.D., and Cem Elbi, M.D., Ph.D.*
- Yuji Yamaguchi, Laboratory of Cell Biology*  
**Response of Human Skin to Ultraviolet Radiation: Melanin-Containing Cells in the Upper Epidermis Protect Against DNA Damage in the Lower Epidermis and Increase the Rate of Apoptosis**
- Julio C. Valencia, Pigment Cell Biology Section, Laboratory of Cell Biology*  
**Plasma Membrane Sorting of Human PMEL17 (gp100): Evidence for Polarized Sorting of Melanosomal Proteins in Melanocytes**
- Thomas Sebastian, Laboratory of Protein Dynamics and Signaling*  
**C/EBP $\beta$  Cooperates with RB:E2F to Mediate Ras-Induced Cellular Senescence**
- Rajeev K. Shrimali, Molecular Biology of Selenium Section, Laboratory of Cancer Prevention*  
**Selenoproteins: Crucial factors in Mammalian Development**
- Jareer N. Kassis, Laboratory of Pathology*  
**CAIR-1/BAG-3 Regulates Tumor Cell Adhesion and Migration by Modulating Signal Transduction and Cytoskeletal Reorganization Through its Proline-Rich Domain**

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

*Moderators: Frederic Kaye, M.D., and Robert Dean, M.D.*

*Jessica Cassavaugh, Pediatric Oncology Branch*

Toward the Characterization of the Ezrin-Associated Metastatic Phenotype

*Benjamin Bruce, Tumor and Metastasis Biology Section, Pediatric Oncology Branch, and Tissue Array Research Program*

Cancer-Wide Tissue Microarray Survey of Ezrin and Merlin Expression

*Maja A. Bumke, Developmental Therapeutics Program, DCTD and SAIC-Frederick, Inc.*  
Proteomic Analysis of Hypoxic B16F10 Melanoma Cells

*Meghan S. Liel, Laboratory of Pathology*

Phase II Study of Gefitinib in Epithelial Ovarian Cancer: Proteomic Pathway Profiling in Tumor Biopsies.

*Sei Hoon Yang, Laboratory of Population Genetics*

Mutations in the Tyrosine Kinase Domain of the Epidermal Growth Factor Receptor in Non-Small Cell Lung Cancer

**3. Immunology and Genetics (Room A-B)**

*Moderators: Barry Gause, M.D., and Jeffrey Chiang, Ph.D.*

*Gareth E. Davies, Basic Research Program, SAIC-Frederick, Inc.*

Identification of a Novel KIR Promoter that May Represent a Probabilistic Switch

*Byung-Gyu Kim, Laboratory of Cell Regulation and Carcinogenesis*

T Cell-Specific Smad4 Deficiency Results in the Accumulation of Plasma Cells in Mice

*Vainav Patel, Human Retrovirus Section, Vaccine Branch*

Decreased IL-12 and IL-15 Production and Impaired IL-12-Induced T-Helper Responses in HIV-1-Infected Individuals

*Søren Warming, Mouse Cancer Genetics Program, NCI-Frederick*

Recombineering: A Powerful Tool for Mouse Functional Genomics

*Guangping Sun, Laboratory of Immune Cell Biology*

Role of the Zinc Finger Protein cKrox During CD4/CD8 Lineage Differentiation in the Thymus

**4. Carcinogenesis, Cancer Models, Epidemiology, and Cancer Prevention; and Signal Transduction and Gene Transcription, Combined (II) (Amphitheater)**

*Moderators: Nancy Colburn, Ph.D., and Arindam Dhar, M.D., Ph.D.*

*Fiona Simpkins, Molecular Signaling Section, Laboratory of Pathology*

The Role of the Secretory Leukocyte Protease Inhibitor (SLPI) and Granulin Epithelin Precursor (GEP) Axis in Ovarian Cancer

*Leah Sansbury, Laboratory of Biosystems and Cancer*

Inflammatory Cytokine Gene Polymorphisms, NSAID Use, and Risk of Adenoma Polyp Recurrence in the Polyp Prevention Trial (PPT)

*Ethan A. Kohn, Laboratory of Cell Regulation and Carcinogenesis*  
Smad3 Gene Dosage Differentially Impacts upon Various TGF- $\beta$ -Mediated Biological Responses

*Soo-Jin Jeong, Virus Tumor Biology Section, Laboratory of Cellular Oncology*  
A Novel NF- $\kappa$ B Pathway Involving IKK $\beta$  and p65/RelA Ser-536 Phosphorylation Results in p53 Inhibition in the Absence of NF- $\kappa$ B Transcription Activity

*Thomas A. Johnson, Laboratory of Receptor Biology and Gene Expression*  
Transcription of the Mouse Mammary Tumor Virus Promoter Is Facilitated by Multiple Members of the swi/snf Family of Chromatin Remodeling Complexes

10:45 a.m. **Break**

11:00 a.m. **Concurrent Workshops**

**1. Skills for the Jobseekers**

*Moderators: Kathleen Dohoney, Ph.D., and Susan Lindtner, Ph.D.*

**Success Strategies and Job-Hunting Skills for Scientists**

*Dave Jensen, Managing Director, CareerTrax, Inc.*

**Seven Attributes of a Successful Hire (Amphitheater)**

*Tom Koisopoulos, Recruitment Manager, Apotex, Inc.*

**2. Mentorship at NCI (Auditorium)**

*Moderators: Ramalakshmi Darbha, Ph.D., and Nicole LaRonde-LeBlanc, Ph.D.*

*Jonathan Wiest, Ph.D., Office of Training and Education, CCR, NCI*  
(2003 awardee)

*Barbara Vonderhaar, Ph.D., Mammary Biology and Tumorigenesis Laboratory, CCR, NCI*  
(2003 awardee)

*Daniel McVicar, Ph.D., Laboratory of Experimental Immunology, CCR, NCI-Frederick*  
(2004 awardee)

*Nancy Colburn, Ph.D., Chief, Laboratory of Cancer Prevention, CCR, NCI-Frederick*  
(2002 awardee)

12:00 p.m. **General and Mentored Lunch (Adams-Taylor Ballroom)**

1:00 p.m. **Plenary Session VII (Auditorium)**

**Keynote Speaker: The Cell Biology of Genomics in Cancer**

*Tom Misteli, Ph.D., Laboratory of Receptor Biology and Gene Expression, CCR, NCI*  
Head, Cell Biology of Genomes Group

*Moderators: Cem Elbi, M.D., Ph.D., and Kevin Chang, Ph.D.*

2:00 p.m. **Travel Awards and Closing (Auditorium)**

*Moderators: Robert Wiltrot, Ph.D., and Kevin Chang, Ph.D.*

2:30 p.m. **Adjourn**