

**11th NCI CCR Fellows and Young Investigators Colloquium
PROGRAM**

Wednesday, February 23th, 2011

- 1:00 p.m. **Registration and Mentored Meal Sign-up** (Lobby)
Poster Session I Setup (Harrison Room)
- 2:00 p.m. **Plenary Session I** (Auditorium)
- Opening Remarks and CCR-FYI Overview**
 Brid Ryan, Ph.D., M.P.H., Chair, CCR FYI Steering Committee
- 2:15 p.m. **Opening Remarks from the CCR Office of Training and Education**
 *Jonathan Wiest, Ph.D., Associate Director, Office of Training and Education, Center for
 Cancer Research, NCI*
- 2:30 p.m. **CCR Office of the Director Address**
 Robert Wiltrout, Ph.D., Director, Center for Cancer Research, NCI
- 3:00 p.m. **Keynote Speaker I: “Lung Cancer Epidemiology: Past, Present and Future.”**
 *Margaret Spitz, M.D., M.P.H. Professor and Chair Department of Epidemiology
 University of Texas M.D. Anderson Cancer Center
 Moderators: Brid Ryan, Ph.D., M.P.H. and Jim Gould, Ph.D.*
- 4:00 p.m. **BREAK**
- 4:30 p.m. **Postdoctoral Keynote Speaker: “Developing Novel Cell-Based Immunotherapies for the
Treatment of Patients with Advanced Cancer”** (Auditorium)
 *Christopher Klebanoff, M.D., Clinical Fellow, Surgery Branch, Center for Cancer
 Research, NCI
 Moderators: Geraldine O’Connor, Ph.D. and Nesrin Rechache, Ph.D.*
- 5:30 p.m. **Room Key Pick-up** (Front Desk)
- 6:00 p.m. **DINNER** (Adams Room)
- 7:30 p.m. **Keynote Speaker II: “Preclinical Models in Radiation Oncology”** (Auditorium)
 *Kevin Camphausen, M.D., Radiation Oncology Branch, NCI
 Moderators: Adeola Makinde, Ph.D. and Alyson Freeman, Ph.D.*
- 8:30 p.m. **Poster Session I** (Harrison Room)
 Immunology, Microbiology and Virology I
 Molecular and Cellular Biology I
 Pharmacology, Chemistry and Biophysics
 Genetics, Genomics and Chromatin
 Cancer Models and Metastasis
 Core Services
 8:30-9:15 p.m. *Odd numbered Posters – presenter must be present*
 9:15-10:00 p.m. *Even numbered Posters – presenter must be present*
- 10:00 p.m. **ADJOURN**

Thursday, February 24th, 2011

7:00 a.m. **CONTINENTAL BREAKFAST** (Adams Room)
Registration Open (Lobby)
Poster Session II Setup (Harrison Room)

8:00 a.m. - 8:00 p.m. **CV/Résumé Critique** (Room 4)

8:30 a.m. **Keynote Speaker III: “HPV Vaccination to Prevent Cancer”** (Auditorium)
*Douglas Lowy, M.D., Deputy Director, NCI, Laboratory of Cellular Oncology Head,
Signaling and Oncogenesis Section Laboratory Chief
Moderators: Geraldine O’Connor, Ph.D. and Tim Chan, Ph.D.*

9:30 a.m. **BREAK**

10:00 a.m. **Concurrent Workshops I**

1. What’s Happening Now: Guide to Resources available to you at the NIH and NCI

(Amphitheater)

Bruce Crise, Ph.D., Director, Business Development, Advanced Technology Program (ATP)

Ewy Mathe, Ph.D., Bioinformatics Staff Scientist, NCI, CCR, NIH

Lori Conlan, Ph.D., Director, Office of Postdoctoral Services, Office of Intramural Training & Education (OITE), NIH

Raed Samara, Ph.D., Scientist, R&D Project Management, QIAGEN

Moderators: Rafal Zielinski, Ph.D. and Nadia Castro, Ph.D.

2. Gene Patents: Good? Bad? Or “It depends”? (Room 2/3)

Stephanie Devaney, Health Science Policy Analyst, NIH

Kevin E. Noonan, Ph.D., J.D., Attorney, MBHB LLP

Hans Sauer, Ph.D., J.D., Deputy General Counsel for Intellectual Property, Biotechnology Industry Organization

Jennifer Gordon, Ph.D., J.D., Patent Attorney, Patner, Baker Botts LLP

Gwen Darien, Executive Director, Samuel Waxman Cancer Research Foundation

Moderators: Adeola Makinde, Ph.D. and Katie Stagliano

11:30 a.m. **LUNCH** (Adams Room)

1:00 p.m. **Concurrent Oral Presentations I**

1. Immunology, Microbiology and Virology I (Room 17)

Moderators: Miranda Hanson, Ph.D. and Tim Chan, Ph.D.

1:00 Rashmi Jalah, Human Retrovirus Pathogenesis Section/Vaccine Branch

Co-delivery of Optimized IL-12 Vectors with SIV DNA Vaccine Results in Improved Immune Responses in Macaques.

1:15 Cristina Bergamaschi, Vaccine Branch

Heterodimeric IL-15/IL-15sRa Complexes Promote Rapid and Efficient Immune Reconstitution in Lymphopenic Mice

1:30 George Lountos, Macromolecular Crystallography Laboratory

Atomic Resolution Crystal Structure of Yersinia Pestis YscU, a Regulatory Switch Involved in Type III Secretion

1:45 Batsukh Dorjbal, HIV Drug Resistance Program

The Role of ITCH in HTLV-1 Release

2:00 Miranda Hanson, Cancer and Inflammation Program
Lactococcus lactis expressing IL-27: A potential therapeutic for inflammatory bowel disease

2. Molecular and Cellular Biology I (Room 16)
Moderators: Alyson Freeman, Ph.D. and Orla Casey, Ph.D.

1:00 Amy Conner, Laboratory of Molecular Pharmacology
Exploring the Effects of Modified Rep-P Replicator Sequence on the Prevention of Gene Silencing

1:15 Benu Brata Das, Laboratory of Molecular Pharmacology
Novel role of Tyrosyl DNA Phosphodiesterase (TDP1) in mitochondrial DNA repair

1:30 Mathew Angelos, Medical Oncology Branch
The BAG3 WW-Domain Regulates Cell Division through F-Actin Association

1:45 Rui Gong, Protein Interactions Group, CCRNP
Identification of a human immunoglobulin constant ch2 domain variant with unique features as scaffold for development of novel small molecules for therapeutics

2:00 Allison Burrell, Radiation Oncology Branch
The Exosomal Radiation Response in Glioblastoma Multiforme

3. Pharmacology and Chemistry (Room 15)
Moderators: George Lountos, Ph.D. and Geraldine O'Connor Ph.D.

1:00 Karobi Moitra, Cancer and Inflammation Program
Gene and microRNA expression signatures reveal unique molecular targets for therapeutic intervention of etoposide resistant breast cancer

1:15 Sheena Aris, Laboratory of Molecular Pharmacology
Potentiation of the novel Topoisomerase I inhibitor indenoisoquinoline NSC743400 by Chk1/2 inhibitor in p53-deficient cells

1:30 Kasthuraiah Maddali, Laboratory of Molecular Pharmacology
Isoindoleione derivatives that target raltegravir-resistant HIV-1 Integrase: A novel approach against HIV/AIDS.

1:45 Emily L. Whitson, Molecular Targets Laboratory
Continued Investigation of the Candidaspongiolides, Tedanolide Analogs that Selectively Inhibit Melanoma Cell Growth

2:00 Medhanit Bahta, Chemical Biology Laboratory
Development of Nanomolar Affinity Inhibitors of the Yersinia Pestis Protein-Tyrosine Phosphatase YopH

4. Genetics, Genomics and Chromatin (Room H)
Moderators: Katie Stagliano and Martha Sklavos, Ph.D.

1:00 Suhwan Chang, Mouse Cancer Genetics Program
The role of Cdc25A in the survival of BRCA2 deficient ES cells and its implication in BRCA2 deficient tumorigenesis

1:15 Anand Ranjan, Laboratory of Biochemistry and Molecular Biology
Molecular mechanism of H2A.Z incorporation in nucleosomes by ATP-dependent chromatin remodeling complex SWRI

1:30 Christiane Kuschal, Dermatology Branch
Increased DNA repair in xeroderma pigmentosum group C cells by induction of readthrough of stop codons

1:45 McAnthony Tarway, Laboratory of Translational Genomics
Genetic variants within JAZF1 are associated with differential binding of androgen receptor, altered mRNA expression and risk of prostate cancer

2:00 Xiaohui Tan, Dermatology Branch
Fusion of the Melanoma Gene, p14arf on 9p, to a Translocation Hotspot in a Gap in 22q in a Patient with Melanoma, Deafness and DNA Repair Deficiency, is a Negative Regulator of p14arf and TBX1

5. Cancer Models and Metastasis (Room 8)

Moderators: Jim Gould, Ph.D. and Brid Ryan Ph.D., M.P.H.

1:00 Joji Nakayama, Laboratory of Molecular Pharmacology
LPA1 regulated pathways that mediate breast cancer dormancy in the liver and lung

1:15 Daniel Fitzgerald, Laboratory of Molecular Pharmacology
A double agent against brain metastasis: Pigment epithelium-derived factor (PEDF) promotes cancer cell death while suppressing lesion induced brain damage

1:30 Isabel Chu, Laboratory of Cancer Biology and Genetics
GATA3 Induces Luminal Reprogramming of Human Basal Triple Negative Breast Cancer Cells and Inhibits Metastases through Suppression of Lysyl Oxidase

1:45 Natascia Marino, Laboratory of Molecular Pharmacology
Functional analysis of the interaction of two metastasis suppressor genes, Nm23-H1 and Gelsolin.

2:00 Xiang Yu, Cell and Cancer Biology Branch
SatB2, targeted by miR31, promotes mobility in cancer microenvironment via NFkB pathway

2:15 p.m.

BREAK

2:45 p.m.

Concurrent Workshops II

3. Advocating to get the job you want (Room 2/3)

Tyrone Spady, Ph.D., Science Policy Analyst, FASEB

Scott Morgan, Ph.D., Director, The Morgan Group/NIH OD

Nicole Gerlanc, Ph.D., Assistant Professor of Biology, Frederick Community College

Moderators: Kristin Fabre, Ph.D. and Marty Sklavos, Ph.D.

4. Successfully breaking into Academia (Amphitheater)

Sharon R. Pine, Ph.D., Assistant Professor, Department of Medicine, UMDNJ/Robert Wood Johnson Medical School

Beverly A. Mock, Ph.D., Associate Director of Scientific Programs, NCI, CCR, NIH

Douglas Lowy, M.D., NCI Deputy Director, Chief, Lab of Cellular Oncology, NCI, CCR, NIH

Daniel McVicar, Ph.D., Senior Investigator, Cancer and Inflammation Program, Laboratory of Experimental Immunology, NCI, CCR, NIH

Moderators: Stephanie Watkins, Ph.D. and John Simmons

- 4:15 p.m. **Career Fair** (Harrison Room)
- 6:00 p.m. **GENERAL AND MENTORED DINNER** (Adams Room)
- 7:30 p.m. **Special Highlight Presentation: “Cancer Survivorship”** (Auditorium)
*Matthew Zacchary, Radio Talk Show Host, Recording Artist and Founder/CEO
 I'm Too Young For This! Cancer Foundation
 Moderators: Allison Bierly, Ph.D. and Nesrin Rechache, Ph.D.*
- 8:30 p.m. **Poster Session II** (Harrison Room)
Immunology, Microbiology and Virology II
Molecular and Cellular Biology II
Translational, Clinical and Epidemiology Research
Signal Transduction and Bioinformatics
Carcinogenesis and Cancer Stem Cells
Core Services
*8:30-9:15 p.m. Odd numbered Posters – presenter must be present
 9:15-10:00 p.m. Even numbered Posters – presenter must be present*
- 10:00 p.m. **ADJOURN**

Friday, February 25th, 2011

- 7:00 a.m. **CONTINENTAL BREAKFAST** (Adams Room)
Registration Open (Lobby)
- 8:00 a.m. **Plenary Session IV: “Translational Studies of Mixed Hematopoietic Chimerism”** (Auditorium)
*Megan Sykes, M.D., Department of Microbiology and Immunology, Columbia University
 Moderators: Christian Capitini, M.D. and Geraldine O'Connor, Ph.D.*
- 9:00 a.m. **BREAK**
- 9:15 a.m. **Concurrent Oral Presentations II**
- 1. Immunology, Microbiology and Virology II** (Room 17)
Moderators: Christian Capitini, M.D. Tim Chan, Ph.D.
- 9:15 Ashley Burg**, Cancer and Inflammation Program
LAB/NTAL mediates β -glucan-induced inflammatory responses in macrophages and dendritic cells
- 9:30 Stephanie Watkins**, Cancer and Inflammation Program
Identification of FOXO3A as a regulator of dendritic cell tolerogenicity in human and murine prostate cancer
- 9:45 Dena H. Tran**, Laboratory of Cancer Biology and Genetics
Constitutive reductions in mTOR expression impair antigen-specific antibody production, affinity maturation, and germinal center formation.
- 10:00 Xiaohong Wang**, HIV and AIDS Malignancy Branch
Construction of a complete transcription map of human papillomavirus type 18 in productive viral infection
- 10:15 Maria J Massimelli**, HIV and AIDS Malignancy Branch
KSHV ORF57 promotes accumulation of a viral non-coding RNA named PAN

2. Molecular and Cellular Biology II (Room 16)

Moderators: Orla Casey, Ph.D. and Jim Gould, Ph.D.

9:15 Marco Mineo, Medical Oncology Branch

Exosomes released by K562 chronic myeloid leukemia cells promote endothelial cell tubular differentiation through uptake and cell-to-cell transfer

9:30 Gary Lam, Laboratory of Cancer Biology and Genetics

A novel mouse model of EGFR ablation reveals that epidermal EGFR signaling modulates the immune and inflammatory response of skin

9:45 Junfang Zhang, Laboratory of Cellular Oncology

Distal epigenetic marks and specific looping correlate with expression of c-myb in normal cells and acute myeloid leukemia

10:00 Jianfei Zhao, Laboratory of Metabolism

25 arylstibonic acids that inhibit the DNA binding of B-ZIP and B-HLH-ZIP transcription factors

10:15 Rebecca Edwards, Laboratory of Cancer Biology and Genetics

CLIC4 regulates TGF- β dependent fibroblast to myofibroblast conversion

3. Translational, Clinical and Epidemiology Research (Room 15)

Moderators: Brid Ryan, Ph.D., M.P.H. and Kristin Fabre, Ph.D.

9:15 Sneha Ramakrishna, Pediatric Oncology Branch

Generation of GD2 CAR-modified T cells for Immunotherapy of Pediatric Solid Tumors

9:30 Daniel W. Lee III, Pediatric Oncology Branch

Antigen-Driven Expansion of CD19 Chimeric Antigen Receptor Transduced T Cells Is Equivalent to Both Antigen Independent Techniques and Young, Unexpanded Cells

9:45 Rasmi Thomas, Cancer and Inflammation Program

Effect of HLA-DP cell surface expression on Hepatitis B Virus pathogenesis

10:00 Mikhael Bekkerman, Laboratory of Human Carcinogenesis

Gene Expression Differences between African American and Caucasian Lung Cancer Tissues

10:15 Alejandra Garcia-Glaessner, Radiation Oncology Branch

Affibody-Dye Light conjugate for imaging of HER2 expressing tumors

4. Signal Transduction, Transcription and Bioinformatics (Room H)

Moderators: Alyson Freeman, Ph.D. and Brajendra Tripathi, Ph.D.

9:15 Liang Huang, Laboratory of Molecular Pharmacology

Interaction between LCR and a replicator mediated by the LARC complex prevents methylation-dependent gene silencing

9:30 Daniel Rabe, Urological Oncology Branch

The identification and characterization of natural product based inhibitors in a hypoxia inducible factor-2 alpha driven model

9:45 Peter Johansson, Pediatric Oncology Branch

A Genomic Portrait of Tumor Progression Using Next-Generation Sequencing

10:00 Lihui Ou, Genetics Branch

Large-scale RNAi screening identifies PCTK3/CDK18 as a putative cancer related molecular target

10:15 Ximiao He, Laboratory of Metabolism

Predicting functional TFBS in the mouse genome

5. Cancer Prevention and Carcinogenesis (Room 8)

Moderators: Christine Tomlinson, Ph.D. and Nadia Castro, Ph.D.

9:15 Rita Humeniuk, Laboratory of Cellular Oncology

Novel Role of p15Ink4b Tumor Suppressor in Erythropoiesis and Hematopoietic Homeostasis

9:30 Sichuan Xi, Surgery Branch

Epigenetic repression of miR487b enhances Polycomb expression and activates Wnt signaling during tobacco-induced pulmonary carcinogenesis

9:45 Kathleen Keefe, Experimental Pathology

Achaete-Scute Homolog 1 Regulates Stemness in the Airway Epithelium through Activation of the WNT/ β -Catenin Pathway

10:00 Joanna Fares, Laboratory of Cellular Carcinogenesis

Novel Role for the p15Ink4b Tumor Suppressor Gene in the Maturation of Myeloid-Derived Dendritic Cells.

10:15 Tapasree Roy Sarkar, Laboratory of Cell and Developmental Signaling

Src Tyrosine Kinase Downregulates C/EBP δ Protein Expression in Breast Tumor Cells via the SIAH2 E3 Ubiquitin Ligase

10:30 a.m.

BREAK

11:00 a.m.

Concurrent Workshops III

5. From the PhD to Industry: Careers for scientists (Amphitheater)

Renuka Sivendran, Ph.D., Scientist, Formulation Development, Regeneron Pharmaceuticals, Inc.

Arti Patel Varanasi, Ph.D., M.P.H., Senior Study Director, Westat

Kimberly Shafer-Weaver, Ph.D., Clinical Immunologist, Intrexon Corporation

Jonathan M. Shaffer, Ph.D., Scientist, Research and Development, QIAGEN - Sample & Assay Technologies

Matthew Sammons, Recruiter, QIAGEN-Human Resources

Moderators: Nadia Castro, Ph.D. and Christy Tomlinson, Ph.D.

6. Communicating Science (Room 2/3)

Nicole Kresge, Ph.D., Editor, ASBMB Today

Kathryn L. Darius, Ph.D., Senior Associate, Frankel Group LLC

Peggy Tsai, M.A., Program Officer, National Academy of Sciences

Adam P. Fagen, Ph.D., Public Affairs Director, American Society of Plant Biologists

Moderators: Rachel Khuyver, Ph.D. and Adeola Makinde, Ph.D.

7. Focus on Fellows: Navigating Visa Issues (Center Lounge)

Brian Daly, Lead Immigration Specialist, Division of International Services (DIS), NIH

Melba Rojas, Immigration Specialist, Division of International Services (DIS), NIH

Moderators: Rafal Zielinski, Ph.D. and Geraldine O'Connor, Ph.D.

12:30 p.m. **LUNCH WITH TRAVEL AWARDS** (Adams Room)

1:00 p.m. **Closing Address**

1:30 p.m. **ADJOURN**