

NCI Summer Curriculum in Cancer Prevention

Maryland, USA

06 - 07 Ogos 2009

Prof. Prabha Balaram
INFORMM

NCI Summer Curriculum in Cancer Prevention
US Department of Health and Human Services
National Institutes of Health
National Cancer Institute

Cancer Prevention Fellowship Program Working Paper
July 6-August 7, 2009

NCI Summer Curriculum in Cancer Prevention is a programme sponsored by the National Cancer Institute, USA to postdoctoral training to individuals from a multiplicity of Health disciplines in the field of Cancer Prevention and Control. This course which is a preliminary course focuses on concepts, methods, issues, and applications related to this field and introduces the participants to various aspects of the area of cancer research and its translation into application.

The course was divided into two major modules:

The introductory module on Principles and Practice of Cancer Prevention and control course and the second advanced module on Molecular Prevention course.

The first module was attended by 21 OIA direct attendees, 20 IAEA PACT attendees, 20 Ireland-Northern Ireland-NCI Cancer Consortium attendees and 20 local participants. Participants were given a broad-based perspective in terms of available resources, scientific data, and quantitative and qualitative methods in prevention of cancer . A series of 54 lectures by experts in the field epidemiology, different types of cancers – occupational, environmental, diet induced, prevention methodologies, role of physical activity, role of biomarkers and screening , community interventions , health disparities, ethics and law and disseminating of the scientific knowledge. (list of speakers and programme attached- Appendix I) were delivered in this module. The course was divided into the following sub modules:

- Introduction to the Cancer Problem
- Cancer Prevention: An International Perspective
- Application of Cancer Prevention Methods

- Diet and Cancer Prevention
- Behavioral Science and Community Interventions
- Ethics, Law, and Policy in Cancer Prevention and Control
- Epidemiology, Prevention, and Control of Site-Specific Tumors
- Annual Advances in Cancer Prevention
- Health Disparities and Cancer Prevention in Diverse Populations
- Occupational Cancer
- Disseminating Scientific Knowledge

The course started on the 6th of July, 2009 with an introductory lecture on the Cancer Prevention Fellowship programme by the director of the Fellowship Programme Dr. David E Nelson MD,MPH. He briefed the participants about the objectives of the programme, a short history of the programme and also the do's and don't's during the programme.

This was followed by an orientation programme conducted by the Division of the International Services, Office of the Research Services, on the responsibilities of the participants as J1 VISA holders, maintenance of the J1 VISA, the importance of Student and Exchange Visitor System (SEVIS), DS-2019 and the importance of having it on person on all occasions, Form I-94, Social Security Number etc.. The subsistence cheque was also issued on the same day.

Starting 7th July, the regular lecture sessions (four lectures per day) took place starting at 8.30 am and finishing at 2.30 pm. No meals were provided and facilities for having meals were provided at the small canteen in the same building as that of the lectures. Free shuttle service which runs regularly from the NCI campus to the NIH campus was utilised for going to the nearest point from the accommodation provided followed by walking down to the hotel.

The lectures were of high standard and covered the topic in great detail (Programme attached - Appendix I) . Question and answer session was of more than 15 minutes duration for each lecture which gave the participants room for active discussion. Handouts of lectures were distributed daily and feedback of the quality of lectures were also collected at the end of each

day. The lecturers were very cordial and easily approachable and encouraged the participants to come forward with questions.

The whole day of July 10 was dedicated to presentations by the participants on the cancer scenario in the country which they represented. The day was named the 'International day'. Since I represented Malaysia, I gave a presentation on " Cancer in Malaysia" based on the cancer registry data of Malaysia(Appendix-1). 37 presentations from different countries of the world were made thus giving the participants an idea of the extent of the cancer problem and the type of cancer prevalence in those countries. This was a very informative session which led to further collaborations among many of the participants. The participants were asked to bring food and a party was held with food from many parts of the world.

A special **Annual Advances in Cancer Prevention Lecture** entitled 'clinical Cancer Genetics and Prevention ' was delivered by Prof. Olufunmilayo F.Olopade , an internationally renowned researcher in the field of clinical cancer research , Walter L. Palmer Distinguished Service Professor, Department of Medicine & Human Genetics, Associate Dean for Global Health, University of Chicago; Professor of Medicine and Human Genetics and Director, Cancer Risk clinic, Department of Medicine BSD, Section of hematology/Oncology, University, Chicago, Illinois at the Lister Hill Auditorium , NIH main campus on 29 At 4pm. She shared her experiences in Clinical cancer Genetics and prevention encompassing an overview of genetic risk assessment in cancer, Risk reduction strategies, Cancer Risk clinics, potential genomic targets for treatment and the future , the ethics problems in genomic research and answered the queries from the participants(Copy of the brochure attached- Appendix II).

The second module on 'Molecular Prevention course" was restricted to 40 participants, mostly engaged in the field of molecular research. It provided a strong background to the molecular biology and genetics of cancer and an overview of basic laboratory approaches in molecular epidemiology, chemoprevention, biomarker discovery, and translational research. A series of 16 lectures including the following topics were presented by experts in the field (Copy of programme attached – Appendix IV) :

- An Overview of Carcinogenesis
- Molecular targets for cancer prevention
- Epigenetics and cancer
- Micro RNAs and Cancer
- Public Health genomics
- The Immune System as a Target for Vaccine and Prevention Approaches
- Cancer from a Biosystem Perspective
- Stem cells and cancer
- Bioinformatical Informatics for molecular prevention studies Genome profiling
- Animal models in cancer research
- Xenobiotic metabolism and cancer
- Hormonal carcinogenesis
- Microarray Approaches in Cancer Prevention
- Molecular Epidemiology: The Integration of Molecular Markers into Population Studies

The lectures were of good standard and well presented with good slides and were easily understandable. By the end of the course, the participants had a fair idea of the various areas of research in cancer and how it could be made use of in the control of cancer and what the future is in cancer research.

More than the lectures and the knowledge it imparted to the participants it was a meeting place for researchers from the developing and the less developed with the developed world giving a chance for interaction and understanding of the problems each one faced in the cancer control programmes in their country and also an idea about the position of cancer research in their particular country in comparison to that in other countries. This was a forum where a number of collaborative studies have taken birth and has given the chance for future interaction between the researchers. Overall, the programme was a big success and very useful for cancer researchers who participated in the programme.

To add to this, I was invited to give a lecture in National Institutes of Health lecture series on July 29, 2009. Accordingly a lecture on 'p53 alterations in Indian oral cancer in relation to radiation response' was given.

Attachments:

Appendix I – course syllabus and programme – Module I

– List of countries represented for International Day - International Day July 10, 2009. P 7

Appendix II – Brochure – special talk

Appendix III- course syllabus and programme – Module II

Appendix IV- Invitation – Invited lecture



Professor Prabha Balaram

Institute for Research in Molecular Medicine (INFORMM)

Health Campus, Kelantan,

Malaysia

NCI Summer Curriculum in Cancer Prevention

Principles and Practice of Cancer Prevention and Control Course

July 6 – 31, 2009

**6001 Executive Boulevard
Conference Rooms C and D
Rockville, MD 20852
301-435-1465**

Course Syllabus 2009

*U.S. Department of Health and Human Services
National Institutes of Health
National Cancer Institute
Cancer Prevention Fellowship Program*

NCI Summer Curriculum in Cancer Prevention

Principles and Practice of Cancer Prevention and Control Course

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**6001 Executive Boulevard
Conference Rooms C and D
Rockville, MD 20852
301-435-1465**

Course Syllabus 2009

*U.S. Department of Health and Human Services
National Institutes of Health
National Cancer Institute
Cancer Prevention Fellowship Program*

NCI Summer Curriculum in Cancer Prevention
Principles and Practice of Cancer Prevention and Control Course

Date: July 6 – 31, 2009

Time: 8:30 a.m. to 10:00 a.m.
10:30 a.m. to 12:00 noon
1:00 p.m. to 2:30 p.m.
(Occasionally, lecture times will vary.)

Location: 6001 Executive Boulevard
Conference Rooms C and D
Rockville, MD 20852
301-435-1465

Activity Director: David E. Nelson, M.D., M.P.H., Director
Cancer Prevention Fellowship Program

Course presented by:

Cancer Prevention Fellowship Program
National Cancer Institute
National Institutes of Health
EPS, Suite 150E
6120 Executive Boulevard
Bethesda, MD 20892-7105
Telephone: 301-496-8640
Fax: 301-480-2669
<http://cancer.gov/prevention/pob>

David E. Nelson, M.D., M.P.H., Director
Jessica M. Faupel-Badger, Ph.D., M.P.H., Associate Director
Dana M. van Bemmelen, Ph.D., M.P.H., Associate Director
Studly Auguste, Program Assistant
Tiffany Bates, Program Assistant
Ellen Jaffe, Secretary
Jonelle C. Saunders, Summer Intern

Course Description

This 4-week summer course provides specialized instruction in the principles and practice of cancer prevention and control. It focuses on concepts, methods, issues, and applications related to this field.

Target Audience

Physicians, research fellows, scientists, and other health care professionals who have an interest in cancer prevention and control.

Course Modules

Module 1:	Introduction to the Cancer Problem
International Day:	Cancer Prevention: An International Perspective
Module 2:	Diet, Physical Activity, and Cancer Prevention
Module 3:	Application of Cancer Prevention Methods
Module 4:	Epidemiology, Prevention, and Control of Site-Specific Tumors
Module 5:	Occupational Environmental Exposures in Cancer
Module 6:	Behavioral Science and Community Interventions
Special Lecture:	Annual Advances in Cancer Prevention
Module 7:	Health Disparities and Cancer Prevention in Diverse Populations
Module 8:	Ethics, Law, and Policy in Cancer Prevention and Control
Module 9:	Disseminating Scientific Knowledge

Educational Objectives

The overall objective of the course is to provide specialized instruction in the principles and practice of cancer prevention and control. The course focuses on the concepts, methods, issues, and applications related to this field. After attending this activity, participants will be able to:

- Adapt a broad-based perspective of these subjects, including resources, data, methods, and theories.
- Integrate lifetime learning skills, including critical appraisal of the literature and bibliographic search concepts and techniques.

Module 1—Introduction to the Cancer Problem

After attending this module, participants will be able to: recognize cancer at different levels, from cell to organism; understand quantitative and qualitative methodological foundations in reviewing scientific literature and assessing cause; and understand cancer databases and their application in cancer prevention and control, including analysis and interpretation of data.

International Day—Cancer Prevention: An International Perspective

After attending this session, participants will be able to: discuss public health issues (with a focus on cancer prevention and control) in the countries represented by the international participants in the course; and recognize the challenges in implementing cancer prevention and control strategies in developing countries.

Module 2—Diet, Physical Activity, and Cancer Prevention

After attending this module, participants will be able to: describe the role of diet and diet-related lifestyle factors (such as weight and physical activity) in the etiology and prevention of cancer; and examine the U.S. diet for the presence of food and nutrients pertinent to cancer with special emphasis on both macro- and micronutrients.

Module 3—Application of Cancer Prevention Methods

After attending this session, participants will be able to: describe and illustrate the use of quantitative and qualitative methodologies in cancer prevention and control; and understand current issues in intervention trials, screening studies, and biomarker use.

Module 4—Epidemiology, Prevention, and Control of Site-Specific Tumors

After attending this module, participants will be able to: interpret state-of-the-art information on the descriptive epidemiology, etiology, screening, and early detection of a majority of the major cancers; and identify and adapt early detection methods in site-specific tumors.

Module 5—Occupational Environmental Exposures in Cancer

After attending this module, participants will be able to understand the role occupation plays in the etiology and prevention of various cancers.

Module 6—Behavioral Science and Community Interventions

After attending this module, participants will be able to: analyze cancer prevention and control at the level of practical application, particularly with respect to tobacco prevention; and identify health education strategies to bring about social and behavioral changes in the community.

Special Lecture—Annual Advances in Cancer Prevention

Module 7—Health Disparities and Cancer Prevention in Diverse Populations

After attending this module, participants will be able to compare and apply cancer prevention and control strategies in several distinct populations.

Module 8—Ethics, Law, and Policy in Cancer Prevention and Control

After attending this module, participants will be able to define the relevant ethical and legal issues concerning the conduct of research and practice in the field of cancer prevention and control.

Module 9—Disseminating Scientific Knowledge

After attending this module, participants will be able to describe tools for disseminating scientific knowledge in the media.

Module 1: Introduction to the Cancer Problem

July 6 – 9

Educational Objective: After attending this module, participants will be able to: recognize cancer at different levels, from cell to organism; understand quantitative and qualitative methodological foundations in reviewing scientific literature and assessing cause; and understand cancer databases and their application in cancer prevention and control, including analysis and interpretation of data.

Monday, July 6

✓ 8:30 a.m.-9:00 a.m.	Welcome	David E. Nelson, M.D., M.P.H.
✓ 9:00 a.m.-9:30 a.m.	Opening Remarks	Barry Kramer, M.D., M.P.H.
9:30 a.m.-10:30 a.m.	Coffee Break, Photos	
✓ 10:30 a.m.-12:00 noon	Cancer Prevention From a Biologist's Perspective	Jessica Faupel-Badger Ph.D., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
✓ 1:00 p.m.-1:45 p.m.	Overview on Cancer Prevention From the Behavioral Scientist's Perspective	Lila Finney Rutten, Ph.D., M.P.H.
✓ 1:45 p.m.-2:30 p.m.	NCI's Role in Cancer Control	Robert Croyle, Ph.D.
✓ 3:00 p.m.	International Participants Orientation	6130 Executive Boulevard (Executive Plaza North, Room H)
✓ 3:00 p.m.	Ireland and Northern Ireland Orientation	6130 Executive Boulevard (Executive Plaza North, Room J)

Tuesday, July 7

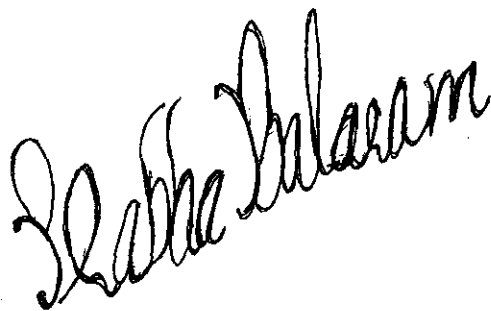
✓ 8:30 a.m.-10:00 a.m.	Randomized Trials	Anthony Alberg, Ph.D., M.P.H.
10:00 a.m.-10:30 a.m.	Break	
✓ 10:30 a.m.-12:00 noon	Observational Studies	Anthony Alberg, Ph.D., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
✓ 1:00 p.m.-2:30 p.m.	Consideration for Analysis and Interpretation of Epidemiologic Data	Michael Goodman, M.D., M.P.H.

Wednesday, July 8

✓ 8:30 a.m.-10:00 a.m.	What Is the Current Evidence for Progress Against Cancer?	Bruce Trock, Ph.D., M.P.H.
✓ 10:00 a.m.-10:30 a.m.	Break	
✓ 10:30 a.m.-12:00 noon	National and International Trends in Cancer Incidence, Mortality, and Survival	Bruce Trock, Ph.D., M.P.H.
✓ 12:00 noon-1:00 p.m.	Lunch	
✓ 1:00 p.m.-2:30 p.m.	The Use of Geographic Analysis Methods in Cancer Control	David Stinchcomb, M.A., M.S.

Thursday, July 9

✓ 8:30 a.m.-10:00 a.m.	Issues in Interpreting Cancer Statistics	Bruce Trock, Ph.D., M.P.H.
10:00 a.m.-10:30 a.m.	Break	
✓ 10:30 a.m.-12:00 noon	Prevention Versus Treatment and the Next Decade of Progress	Bruce Trock, Ph.D., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Accessing and Analyzing Health Survey Data	Richard P. Moser, Ph.D.



International Day Cancer Prevention: An International Perspective

July 10

Educational Objective: After attending this session, participants will be able to: discuss public health issues (with a focus on cancer prevention and control) in the countries represented by the international participants in the course; and recognize the challenges in implementing cancer prevention and control strategies in developing countries.

Friday, July 10

8:30 a.m.-12:30 p.m.

Asia

8:30 a.m.-8:40 a.m.
8:40 a.m.-8:50 a.m.
8:50 a.m.-9:00 a.m.
9:00 a.m.-9:10 a.m.
9:10 a.m.-9:20 a.m.
9:20 a.m.-9:30 a.m.
9:30 a.m.-9:40 a.m.
9:40 a.m.-9:50 a.m.
9:50 a.m.-10:00 a.m.
10:00 a.m.-10:10 a.m.
10:10 a.m.-10:20 a.m.
10:20 a.m.-10:30 a.m.
10:30 a.m.-10:40 a.m.
10:40 a.m.-10:50 a.m.
10:50 a.m.-11:00 a.m.

Break

11:00 a.m.-11:10 a.m.

Africa

11:10 a.m.-11:20 a.m.
11:20 a.m.-11:30 a.m.
11:30 a.m.-11:40 a.m.
11:40 a.m.-11:50 p.m.
11:50 p.m.-12:00 noon
12:00 noon-12:10 p.m.
12:10 p.m.-12:20 p.m.
12:20 p.m.-12:30 p.m.

12:30 p.m.-1:30 p.m.

Lunch

1:30 p.m.-4:00 p.m.

Europe

1:30 p.m.-1:40 p.m.
1:40 p.m.-1:50 p.m.
1:50 a.m.-2:00 p.m.
2:00 p.m.-2:10 p.m.
2:10 p.m.-2:20 p.m.
2:20 p.m.-2:30 p.m.
2:30 p.m.-2:40 p.m.
2:40 p.m.-2:50 p.m.
2:50 p.m.-3:00 p.m.

Central and South America

3:00 p.m.-3:10 p.m.
3:10 p.m.-3:20 p.m.
3:20 p.m.-3:30 p.m.

Questions

3:30 p.m.-4:00 p.m.

China ①
India and Sri Lanka ⑩
Philippines
Malaysia ②
Indonesia
Azerbaijan
Mongolia
Israel
Nepal
Uzbekistan
Yemen
Vietnam
Sri Lanka ⑧
Korea
Jordan ⑨

Ghana
Nigeria
Tanzania
Gambia
Senegal
Sierra Leon
Sudan
Kenya

Italy
Georgia
Republic of Ireland
Northern Ireland
Germany
Russia
Albania
Spain
Turkey

Nicaragua
Peru
Argentina

Module 2: Diet, Physical Activity, and Cancer Prevention

July 13 – 15

Educational Objective: After attending this module, participants will be able to: describe the role of diet and diet-related lifestyle factors (such as weight and physical activity) in the etiology and prevention of cancer; and examine the U.S. diet for the presence of food and nutrients pertinent to cancer with special emphasis on both macro- and micronutrients.

Monday, July 13

8:30 a.m.-10:00 a.m.	The Built Environment, Physical Activity, and Health	Kelly Clifton, Ph.D.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Diet in Cancer at Crossroads: Know What To Believe—or Even Believe What We Know?	Arthur Schatzkin, M.D., Dr.P.H.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Dietary Assessment	Jill Reedy, Ph.D., M.P.H., R.D.

Tuesday, July 14

8:30 a.m.-8:40 a.m.	Functional Foods and Their Components, Nutrigenomics	John Milner, Ph.D.
8:40 a.m.-9:10 a.m.	Molecular Basis for Cancer Prevention by Cruciferous Vegetables, Tomatoes, and Grains	Young Kim, Ph.D.
9:10 a.m.-9:40 a.m.	Garlic, Green Leafy Vegetables, and Cancer	John Milner, Ph.D.
9:40 a.m.-10:00 a.m.	Questions and Answers	
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-11:00 a.m.	Molecular Basis for Cancer Prevention by Polyphenolic Foods	Young Kim, Ph.D.
11:00 a.m.-11:30 a.m.	Fish (n-3 Fatty Acids), Mushrooms (Vitamin D), and Meat (Selenium) Issues	John Milner, Ph.D.
11:30 a.m.-11:40 a.m.	Nutritional Preemption and Future Directions	John Milner, Ph.D.

11:40 a.m.-12:00 noon	Questions and Answers	
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Physical Activity and Cancer Incidence and Mortality	Melinda Irwin, Ph.D., M.P.H.

Wednesday, July 15

8:30 a.m.-10:00 a.m.	Physical Activity Assessment	Heather Bowles, Ph.D.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Animal Models in Physical Activity Research	Lisa Colbert, Ph.D., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Biomarkers in Cancer Prevention	Nancy Potischman, Ph.D.

Module 3: Application of Cancer Prevention Methods

July 16

Educational Objective: After attending this session, participants will be able to: describe and illustrate the use of quantitative and qualitative methodologies in cancer prevention and control; and understand current issues in intervention trials, screening studies, and biomarker use.

Thursday, July 16

8:30 a.m.-10:00 a.m.	Randomized Trials of Screening	Pamela Marcus, Ph.D., M.S.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	PLCO and Cancer Screening	Christine Berg, M.D.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	International Screening and PSA	Amanda Black, Ph.D., M.P.H.

Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors

July 17 – 23

Educational Objective: After attending this module, participants will be able to: interpret state-of-the-art information on the descriptive epidemiology, etiology, screening, and early detection of a majority of the major cancers; and identify and adapt early detection methods in site-specific tumors.

Friday, July 17

8:30 a.m.-10:00 a.m.	Ovarian Cancer	Kala Visvanathan, M.B.B.S., F.R.A.C.P., M.H.S.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Skin Cancer	Alan Geller, R.N., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Clinical Cancer Prevention	Ernest Hawk, M.D., M.P.H.

Monday, July 20

8:30 a.m.-10:00 a.m.	Breast Cancer	Barbara K. Dunn, M.D., Ph.D.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Cervical Cancer	Philip Castle, Ph.D., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Endometrial Cancer	James Lacey, Jr., Ph.D., M.P.H.

Tuesday, July 21

8:30 a.m.-10:00 a.m.	Bladder Cancer	Jonine Figueroa, Ph.D., M.P.H.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Prostate Cancer	Ann Hsing, Ph.D.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	HPV and Cancer Sites Other Than the Cervix	Aimée R. Kreimer, Ph.D.

Wednesday, July 22

8:30 a.m.-10:00 a.m.	Thyroid Cancer	Elaine Ron, Ph.D., M.P.H.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Colon Cancer	Amanda Cross, Ph.D.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Pancreatic Cancer	Rachel Stolzenberg-Solomon, Ph.D., M.P.H.

Thursday, July 23

8:30 a.m.-10:00 a.m.	Complementary and Alternative Medicine	Jeffrey White, M.D.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Lung and Aerodigestive Tract Cancers	Eva Szabo, M.D.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Esophageal Cancer	Philip Taylor, M.D., Sc.D.

Optional Social Activity "Sunset Serenade" at Woodley Park Zoo from 6-8PM
Free Summer Concert: Soul in Motion (dance and drum group from West Africa)

*Take Metrorail to the Woodley Park-Zoo/Adams Morgan station or Metrobus routes L1, L2, or L4
(use the Connecticut Avenue entrance), or route H4 (use the Harvard Street entrance).*

Module 5: Occupational Environmental Exposures in Cancer

July 24

Educational Objective: After attending this module, participants will be able to understand the role occupation plays in the etiology and prevention of various cancers.

Friday, July 24

8:30 a.m.-10:00 a.m.	Occupational Cancer	Laura Beane-Freeman, Ph.D., M.P.H.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Radiation and Cancer	Alice Sigurdson, Ph.D.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.- 2:30 p.m.	Lymphoid Neoplasms Burkitt's Lymphoma	Patricia Hartge, Sc.D., M.A and Sam Mbulaiteye, M.D.

Module 6: Behavioral Science and Community Interventions

July 27 – 28

Educational Objective: After attending this module, participants will be able to: analyze cancer prevention and control at the level of practical application, particularly with respect to tobacco prevention; and identify health education strategies to bring about social and behavioral changes in the community.

Monday, July 27

8:30 a.m.-10:00 a.m.	The Role of Literacy and Health Literacy in Cancer Prevention and Outcomes	Terry Davis, Ph.D.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Harnessing the Power of an Intelligent Health Environment in Cancer Control and Prevention	Bradford Hesse, Ph.D.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Cancer Survivorship: A Growing Focus of Attention in the Cancer Control Continuum	Julia Rowland, Ph.D.

Tuesday, July 28

8:30 a.m.-10:00 a.m.	An Overview of Key Issues in Tobacco Control	Erik Augustson, Ph.D., M.P.H.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	TBA	David E. Nelson, M.D., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	Pitfalls To Avoid in Questionnaire Design	Gordon Willis, Ph.D.

Module 7: Health Disparities and Cancer Prevention in Diverse Populations

July 29

Educational Objective: After attending this module, participants will be able to compare and apply cancer prevention and control strategies in several distinct populations.

Wednesday, July 29

8:30 a.m.-10:00 a.m.	Health Disparities in Cancer Control	Shobha Srinivasan, Ph.D.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Hispanic Populations	Olivia Carter-Pokras, Ph.D., M.H.S.
12:00 noon-1:00 p.m.	Lunch	

3:00 p.m.- 4:00 p.m.	Annual Advances in Cancer Prevention Lecture
	Olufunmilayo F. Olopade, M.D., F.A.C.P.

Presented at Lister Hill Auditorium, NIH Main Campus, Building 38A

Module 8: Ethics, Law, and Policy in Cancer Prevention and Control**July 30**

Educational Objective: After attending this module, participants will be able to: define the relevant ethical and legal issues concerning the conduct of research and practice in the field of cancer prevention and control.

Thursday, July 30

8:30 a.m.-10:00 a.m.	Law and Policy in Cancer Prevention and Control	Kerri McGowan Lowrey, J.D., M.P.H.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	Interpreting Scientific Evidence for Cancer Prevention	Douglas Weed, M.D., Ph.D., M.P.H.
12:00 noon-1:00 p.m.	Lunch	
1:00 p.m.-2:30 p.m.	The Ethics of HPV Vaccine Dissemination	Patti Gravitt, Ph.D., M.S.
2:30 p.m.-4:30 p.m.	Elective Presentation	Massoud Samiei, Ph.D. and Joe Harford, Ph.D.

Module 9: Disseminating Scientific Knowledge**July 31**

Educational Objective: After attending this module, participants will be able to describe tools for disseminating scientific knowledge in the media.

Friday, July 31

8:30 a.m.-10:00 a.m.	Energy Balance, Anthropometrics, Hormones, and Cancer	Rudolph Kaaks, Ph.D.
10:00 a.m.-10:30 a.m.	Break	
10:30 a.m.-12:00 noon	TBA	Elmer Huerta, M.D., M.P.H.

Faculty

Alberg, Anthony, Ph.D., M.P.H. — *Module 1: Introduction to the Cancer Problem*

Associate Director of Cancer Prevention and Control, Blatt Ness Endowed Chair in Oncology, Hollings Cancer Center, Medical University of South Carolina, 86 Jonathan Lucas Street, P.O. Box 250955, Charleston, SC 29425; 843-792-9588; alberg@musc.edu

Augustson, Erik, Ph.D., M.P.H. — *Module 6: Behavioral Science and Community Interventions*

Behavioral Scientist/Psychologist, Tobacco Control Research Branch, Division of Cancer Control and Population Sciences, NCI/SAIC-Frederick, NIH, Executive Plaza North, Room 4039B, 6130 Executive Boulevard, Bethesda, MD 20892-7337; 301-435-7610; augustse@mail.nih.gov

Beane-Freeman, Laura, Ph.D., M.P.H. — *Module 5: Occupational Environmental Exposures in Cancer*

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Berg, Christine, M.D. — *Module 3: Application of Cancer Prevention Methods*

Chief of Lung & Upper Aerodigestive Cancer Research, Early Detection Research Group, Division of Cancer Prevention, NCI, NIH, Executive Plaza North, Room 3112, 6130 Executive Boulevard, MSC 7346, Bethesda, MD 20892-7346; 301-496-8544; bergc@mail.nih.gov

Black, Amanda, Ph.D., M.P.H. — *Module 3: Application of Cancer Prevention Methods*

Fellow, Cancer Prevention Fellowship Program, NCI, NIH, Executive Plaza South, 6120 Executive Boulevard, Room 150E, Bethesda, MD 20892; 301-496-8546; blacka@mail.nih.gov

Bowles, Heather, Ph.D. — *Module 2: Diet, Physical Activity, and Cancer Prevention*

Physical Activity Epidemiologist, Risk Factor Methods and Monitoring Branch, NCI, NIH, Executive Plaza North, 4026, 6130 Executive Boulevard, Bethesda, MD 20892; 301-496-8500; bowleshr@mail.nih.gov

Carter-Pokras, Olivia, Ph.D., M.H.S. — *Module 7: Health Disparities and Cancer Prevention in Diverse Populations*

Associate Professor, Department of Epidemiology and Preventive Medicine, University of Maryland, College Park, School of Public Health, 1240D HHP Building, College Park, MD 20742; 301-405-8037; opokras@umd.edu

Castle, Philip, Ph.D., M.P.H. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Clifton, Kelly, Ph.D. — *Module 2: Diet, Physical Activity, and Cancer Prevention*

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Colbert, Lisa, Ph.D., M.P.H. — *Module 2: Diet, Physical Activity, and Cancer Prevention*

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Cross, Amanda J., Ph.D. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Croyle, Robert, Ph.D. — *Module 1: Introduction to the Cancer Problem*

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Davis, Terry, Ph.D. — *Module 6: Behavioral Science and Community Interventions*

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Dunn, Barbara, M.D., Ph.D. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Faupel-Badger, Jessica, Ph.D., M.P.H. — *Module 1: Introduction to the Cancer Problem*

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Figueroa, Jonine, Ph.D., M.P.H. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Finney Rutten, Lila, Ph.D., M.P.H. — *Module 1: Introduction to the Cancer Problem*

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Geller, Alan, R.N., M.P.H. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Goodman, Michael, M.D., M.P.H. — *Module 1: Introduction to the Cancer Problem*

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Gravitt, Patti E., Ph.D., M.S. — *Module 8: Ethics, Law, and Policy in Cancer Prevention and Control*

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Harford, Joe, Ph.D. — *Module 8: Ethics, Law, and Policy in Cancer Prevention and Control*

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Hartge, Patricia, Sc.D., M.A. — *Module 5: Occupational Environmental Exposures in Cancer*

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Hawk, Ernest, M.D., M.P.H. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Hesse, Bradford, Ph.D. — *Module 6: Behavioral Science and Community Interventions*

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Hsing, Ann, Ph.D. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Huerta, Elmer, M.D., M.P.H. — *Module 9: Disseminating Scientific Knowledge*

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Kaaks, Rudolph, PhD — *Module 9: Disseminating Scientific Knowledge*

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Kim, Young, Ph.D. — *Module 2: Diet, Physical Activity and Cancer Prevention*

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Lacey, James, Ph.D. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*

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Rowland, Julia, Ph.D. — *Module 6: Behavioral Science and Community Interventions*
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Srinivasan, Shobha, Ph.D. — *Module 7: Health Disparities and Cancer Prevention in Diverse Populations*
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Stinchcomb, David, M.A., M.S. — *Module 1: Introduction to the Cancer Problem*
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Stolzenberg-Solomon, Rachel, Ph.D., M.P.H. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*
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Szabo, Eva, M.D. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*
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Taylor, Philip, M.D., Sc.D. — *Module 5: Epidemiology, Prevention, and Control of Site-Specific Tumors*
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Trock, Bruce, Ph.D., M.P.H. — *Module 1: Introduction to the Cancer Problem*
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Visvanathan, Kala, M.B.B.S., F.R.A.C.P., M.H.S. — *Module 4: Epidemiology, Prevention, and Control of Site-Specific Tumors*
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Weed, Douglas, M.D., Ph.D., M.P.H. — *Module 8: Ethics, Law, and Policy in Cancer Prevention and Control*
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White, Jeffrey D., M.D. — *Module 5: Epidemiology, Prevention, and Control of Site-Specific Tumors*
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Willis, Gordon, Ph.D. — *Module 6: Behavioral Science and Community Interventions*
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National Cancer Institute

2009 ANNUAL ADVANCES IN CANCER PREVENTION LECTURE

CLINICAL CANCER GENETICS AND PREVENTION



Professor of Medicine and
Human Genetics
Director, Cancer Risk Clinic
Department of Medicine BSD
Section of Hematology/Oncology
University of Chicago
Chicago, Illinois

Olufunmilayo F. Olopade
M.D., F.A.C.P.

**Lister Hill Auditorium
NIH Main Campus
Wednesday, July 29, 2009
3:00pm- 4:00pm**

Reception to follow

CLINICAL CANCER GENETICS AND PREVENTION

Olufunmilayo Olopade, MD, PhD

Dr. Olufunmilayo Olopade is an internationally renowned expert in the field of inherited cancer genetics. She serves as numerous capacities at the University of Chicago's Frank R. Starobsky Medicine and Public Health Center, Cancer Research Association, and as a professor and director of the University of Chicago's Department of Hematology-Oncology. Dr. Olopade is dedicated to the majority of her research is focused on the biology of the inherited cancer susceptibility syndromes of African descent and to the development of cancer prevention strategies for African American patients and their counterparts. Along the way, Dr. Olopade has many ground-breaking discoveries about the disease through an interdisciplinary approach, leading to the development of treatment plans for individuals and assessment of the cancer patients' outcomes.

Dr. Olopade received the medical degree with high honors from the University of Lagos, Nigeria, in 1980 after which she worked as a medical officer at the Nigerian Navy Hospital. She completed her internship and residency in 1986 at the Cook County Hospital where she was named Chief Medical Resident in Hematology-Oncology and Oncology. A postdoctoral fellow (1987-1991) at the University of Chicago, Dr. Olopade joined the University of Chicago faculty as an assistant professor of Hematology-Oncology in 1991. Her research interests led her to push for the formation of the Center for Clinical and Translational Research at the University of Chicago, which she now oversees.

Dr. Olopade is a member of multiple professional associations and societies and has received numerous honors and awards including the James S. McDonnell Foundation Scholar Award, the Doris Duke Distinguished Clinical Scientist Award, MacArthur Fellowship, "Genius" Award, and Walter L. Palmer Distinguished Service Professorship. In 2006, she was the first recipient of the American Association for Cancer Research's Minorities in Cancer Research Jane Cooke Wright Lecture-ship. Most recently Dr. Olopade was inducted into the Institute of Medicine of the National Academy of Sciences. These prestigious honors acknowledge her meritorious contributions to the field of cancer research, identifying her as a prominent international leader in the advancement of breast cancer research and therapy.

NCI Summer Curriculum in Cancer Prevention

Molecular Prevention Course

August 3 – 7, 2009

**6001 Executive Boulevard
Conference Rooms C and D
Rockville, MD 20852
301-435-1465**

Course Syllabus 2009

*U.S. Department of Health and Human Services
National Institutes of Health
National Cancer Institute
Cancer Prevention Fellowship Program*

NCI Summer Curriculum in Cancer Prevention

Molecular Prevention Course

Date: August 3 – 7, 2009

Time: 8:30 a.m. to 10:00 a.m.
10:30 a.m. to 12:00 p.m.
1:00 p.m. to 2:30 p.m.
(Occasionally, lecture times will vary.)
Each session has a different topic and speaker.

Location: 6001 Executive Boulevard
Conference Rooms C and D
Rockville, MD 20852
301-435-1465

Course presented by:

Cancer Prevention Fellowship Program
National Cancer Institute
National Institutes of Health
Executive Plaza South, Suite 150E
6120 Executive Boulevard
Bethesda, MD 20892-7105
Telephone: 301-496-8640
Fax: 301-480-2669
<http://cancer.gov/prevention/pob>

David E. Nelson, M.D., M.P.H., Director
Jessica M. Faupel-Badger, Ph.D., M.P.H., Associate Director
Dana M. van Bommel, Ph.D., M.P.H., Associate Director
Studly Auguste, Program Specialist
Tiffany Bates, Program Assistant
Ellen Jaffe, Secretary
Jonelle C. Saunders, Summer Intern

NCI Summer Curriculum in Cancer Prevention and Control

Molecular Prevention Course

Monday, August 3, 2009

8:30 a.m. - 8:45 a.m.	Introduction/Course Overview	David E. Nelson, M.D., Ph.D.
8:45 a.m. - 10:30 a.m.	Overview of Carcinogenesis	Norman Hord, Ph.D., M.P.H., R.D.
10:30 a.m. - 11:00 a.m.	Break	
11:00 a.m. - 12:30 p.m.	Molecular Targets for Cancer Prevention	Nancy Colburn, Ph.D.
12:30 p.m. - 1:30 p.m.	Group Photo and Lunch	
1:30 p.m. - 3:00 p.m.	Understanding the Role of Epigenetics and Cancer	Dana van Bemmelen, Ph.D., M.P.H.

Tuesday, August 4, 2009

8:30 a.m. - 10:00 a.m.	MicroRNAs and Cancer: From MicroRNA Discovery to Their Potential as Biomarkers and Therapeutic Targets in Cancer	Aaron J. Schetter, Ph.D., M.P.H.
10:00 a.m. - 10:30 a.m.	Break	
10:30 a.m. - 12:00 p.m.	Cancer From a Biosystem Perspective	J. Carl Barrett, Ph.D.
12:00 p.m. - 1:00 p.m.	Lunch	
1:00 p.m. - 2:30 p.m.	Public Health Genomics: Closing the Gap Between Gene Discoveries and Cancer Control and Prevention	Muin J. Khoury, M.D., Ph.D.

Wednesday, August 5, 2009

8:30 a.m. - 10:00 a.m.	The Immune System as a Target for Vaccine and Prevention Approaches	Connie Rogers, Ph.D., M.P.H.
10:00 a.m. - 10:30 a.m.	Break	
10:30 a.m. - 12:00 p.m.	Stem Cells and Cancer	William L. Farrar, Ph.D.
12:00 p.m. - 1:00 p.m.	Lunch	

5/10/09
B. W. 2/24

1:00 p.m. - 2:30 p.m.	Biomedical Informatics for Molecular Prevention Studies	Kenneth Buetow, Ph.D.
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Thursday, August 6, 2009

8:30 a.m. - 10:00 a.m.	Genome-Profiling Technologies in Cancer Research	Paul S. Meltzer, M.D., Ph.D
10:00 a.m. - 10:30 a.m.	Break	
10:30 a.m. - 12:00 p.m.	Animal Models in Cancer Control Research	Ron Carsten, D.V.M., Ph.D.
12:00 p.m. - 1:00 p.m.	Lunch	
1:00 p.m. - 2:30 p.m.	Xenobiotic Metabolism and Cancer	Peter Scholl, Ph.D.

Friday, August 7, 2009

9:00 a.m. - 10:30 a.m.	Hormonal Carcinogenesis	Robin Fuchs-Young, Ph.D.
10:30 a.m. - 11:00 a.m.	Break	
11:00 a.m. - 12:30 p.m.	The Integration of Molecular Markers Into Population Studies	Nathaniel Rothman, M.D., M.P.H., M.H.S.
12:30 p.m. - 1:00 p.m.	Lunch	
1:00 p.m. - 2:30 p.m.	Mechanisms of Cancer Prevention by Rapamycin	Philip Dennis, M.D., Ph.D.
2:30 p.m. - 3:00 p.m.	Closing Remarks	David E. Nelson, M.D., Ph.D.

Faculty

Barrett, J. Carl, Ph.D. – *Cancer From a Biosystem Perspective*

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Buetow, Kenneth Ph.D. – *Biomedical Informatics for Molecular Prevention Studies*

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Carsten, Ron, D.V.M., Ph.D. – *Animal Models in Cancer Control Research*

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Colburn, Nancy, Ph.D. – *Molecular Targets for Cancer Prevention*

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Dennis, Philip, M.D., Ph.D. – *Mechanisms of Cancer Prevention by Rapamycin*

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Farrar, William L., Ph.D. – *Stem Cells and Cancer*

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Fuchs-Young, Robin, Ph.D. – *Hormonal Carcinogenesis*

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Hord, Norman, Ph.D., M.P.H., R.D. – *Overview of Carcinogenesis*

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Khoury, Muin J., M.D., Ph.D. – *Public Health Genomics: From the Science of Discovery to the Science of Health Impact*

Director, National Office of Public Health Genomics, Centers for Disease Control and Prevention, Senior Consultant in Public Health Genomics, Division of Cancer Control and Population Sciences, NCI, NIH, 4770 Buford Highway, MS K89, Atlanta, GA 30341; 770-488-8510; muk1@cdc.gov

Meltzer, Paul S., M.D., Ph.D. – *Genome-Profiling Technologies in Cancer Research*

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Nelson, David E., M.D., M.P.H. – *Introduction/Course Overview*

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Rogers, Connie, Ph.D., M.P.H. – *The Immune System as a Target for Vaccine and Prevention Approaches*
Research Fellow, Laboratory of Tumor Immunology and Biology, Center for Cancer Research, NCI, NIH,
Building 10, Room 8B04, 10 Center Drive, Bethesda, MD 20892-1750; 301-451-1417;
rogersco@mail.nih.gov

Rothman, Nathaniel, M.D., M.P.H., M.H.S. – *The Integration of Molecular Markers Into Population Studies*

Senior Investigator, Occupational Epidemiology Branch, Division of Cancer Epidemiology and Genetics,
NCI, NIH, Executive Plaza South, Room 8116, 6120 Executive Boulevard, Bethesda, MD 20892;
301-496-9093; rothmann@mail.nih.gov

Schetter, Aaron J., Ph.D., M.P.H. – *MicroRNAs and Cancer: From MicroRNA Discovery to Their Potential as Biomarkers and Therapeutic Targets in Cancer*

Research Fellow, Molecular Genetics and Carcinogenesis Section, NCI, NIH, Building 37, Room 3050,
37 Convent Drive, Bethesda, MD 20892; 301-496-7251; schettera@mail.nih.gov

Scholl, Peter, Ph.D. – *Xenobiotic Metabolism and Cancer*

Research Chemist, U.S. Food and Drug Administration, Harvey W. Wiley Building, Room BE006,
HFS-700, 5100 Paint Branch Parkway, College Park, MD 20740; 301-436-2167; peter.scholl@fda.hhs.gov

van Bemmelen, Dana, Ph.D., M.P.H. – *Understanding the Role of Epigenetics and Cancer*

Assistant Director, Cancer Prevention Fellowship Program, NCI, NIH, Executive Plaza South, Room
150E, 6120 Executive Boulevard, Bethesda, MD 20892-7361; 301-402-8806; vanbemmelen@mail.nih.gov

LECTURE SERIES:

WEDNESDAY, JULY 29, 2009

GUEST SPEAKER:

Dr.Prabha Balaram

Deputy Director (Postgraduate Affairs)

Institute for Research in Molecular Medicine
(INFORMM)

Health campus

University of Malaysia

**TITLE: p53 Alterations in Indian Oral Cancer
in Relation to Radiation
Response**

PLACE: Building 10, 2S235 conference room

TIME: 12:00-1:00pm