

DIVISION OF CANCER PREVENTION

Cancer Prevention Fellowship Program

**2015 Summer Curriculum in
Cancer Prevention**

MOLECULAR PREVENTION COURSE

AUGUST 3-7, 2015

SYLLABUS

NCI Summer Curriculum in Cancer Prevention

Molecular Prevention Course

Date: August 3 – 7, 2015

Time: 8:30 a.m. to 2:30 p.m.

Location: 6001 Executive Boulevard
Rooms C & D
Rockville, MD 20852
Security/Check-in Desk – (301) 435-1470

Course Director: Lisa B. Signorello, ScD, ScM
Deputy Director, Cancer Prevention Fellowship Program

Course Coordinators: Aili Ellen Evert
Lindsay Levine

Course presented by:

Cancer Prevention Fellowship Program
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Monday, August 3, 2015

8:30 a.m. – 8:45 a.m.	Introduction/Course Overview	Lisa B. Signorello, ScD, ScM
8:45 a.m. – 10:15 a.m.	Molecular Basis of Carcinogenesis	Goli Samimi, PhD, MPH
10:15 a.m. – 10:45 a.m.	Break	
10:45 a.m. – 12:15 p.m.	Molecular Pathology in Prevention Research	Mark Sherman, MD
12:15 p.m. – 1:30 p.m.	Lunch	
1:30 p.m. – 3:00 p.m.	Translational Genomics	Stephen J. Chanock, MD

Tuesday, August 4, 2015

8:30 a.m. – 10:00 a.m.	Early Detection Research Network	Sudhir Srivastava, PhD, MPH
10:00 a.m. – 10:30 a.m.	Break	
10:30 a.m. – 12:00 p.m.	Applying Molecular Markers Within Population-based Studies	Gretchen L. Gierach, PhD, MPH
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 2:30 p.m.	Telomeres and Cancer	Bari J. Ballew, PhD

Wednesday, August 5, 2015

8:30 a.m. – 10:00 a.m.	Blood-based Epigenetic Biomarker and Cancer Early Detection and Prevention	Lifang Hou, MD, MS, PhD
10:00 a.m. – 10:30 a.m.	Break	
10:30 a.m. – 12:00 p.m.	Risk Stratification and Disease Prevention	Nilanjan Chatterjee, PhD
12:00 p.m. – 1:00 p.m.	Group Photo and Lunch	

1:00 p.m. – 2:30 p.m.	Applications of Informatics in Precision Oncology and the Intersection with Prevention	Warren A. Kibbe, PhD
2:30 p.m.-3:30 p.m.	Methylation Portraits from the Front-Lines: Towards a World-Wide Network for Cancer Early Detection and Diagnosis Research in Low-Income Countries	Rafael Guerrero-Preston, DrPH, MPH

Thursday, August 6, 2015

8:30 a.m. – 10:00 a.m.	Human Microbiome and Cancer	Emily Vogtmann, PhD, MPH
10:00 a.m. – 10:30 a.m.	Break	
10:30 a.m. – 12:00 p.m.	Metabolomics and Its Uses in Epidemiology and Cancer Etiology Studies	Steven C. Moore, PhD, MPH
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 2:30 p.m.	microRNA and Cancer	Brid M. Ryan, PhD, MPH

Friday, August 7, 2015

8:30 a.m. – 10:00 a.m.	Precision Medicine in Cancer	Curtis C. Harris, MD
10:00 a.m. – 10:30 a.m.	Break	
10:30 a.m. – 12:00 noon	Cancer Immunoprevention	Sasha Stanton, MD, PhD
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 2:30 p.m.	Big Data and Personalized Medicine: Impact on Cancer Prevention	Christopher I. Amos, PhD
2:30 p.m.	Closing Remarks	Lisa B. Signorello, ScD, ScM