

Cancer Prevention Fellowship Program

NCI Summer Curriculum in Cancer Prevention

Molecular Prevention Course

August 3 - 7, 2015

Course Syllabus
2015

6001 Executive Boulevard
Rockville, MD 20852

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

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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
Division of Cancer Prevention
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Aili Ellen Evert
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Monday, August 3, 2015

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| 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

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|-------------------------|------------------------------------------------------------|-------------------------------|
| 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

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|-------------------------|----------------------------------------------------------------------------|--------------------------|
| 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 | |

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| 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

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|-------------------------|-----------------------------------------------------------------------|---------------------------|
| 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

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|-------------------------|-----------------------------------------------------------------|------------------------------|
| 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 |