

## 2012 AICR Conference on Food, Nutrition, Physical Activity and Cancer

November 1 & 2, 2012

Capital Hilton Hotel, Washington, DC

### Program Draft

#### Program Committee

John W. Erdman, Jr., PhD, University of Illinois at Urbana-Champaign (Chair)

Wendy Demark-Wahnefried, PhD, RD, UAB Comprehensive Cancer Center

Richard L. Eckert, PhD, University of Maryland School of Medicine

James C. Fleet, PhD, Purdue University

John A. Milner, PhD, USDA Beltsville Human Nutrition Center

Cheryl L. Rock, PhD, RD, University of California, San Diego, School of Medicine

June Stevens, MS, PhD, University of North Carolina at Chapel Hill

#### WEDNESDAY, OCTOBER 31

4:00pm–7:00pm      Registration—Foyer 1

5:00pm–7:00pm      Welcome Reception—Congressional Room

#### THURSDAY, NOVEMBER 1

7:15am–8:15am      **Continental Breakfast**—Congressional/Senate Rooms

8:15am–8:30am      **Welcome**—Presidential Ballroom  
Kelly Browning, Chief Executive Officer, AICR  
John W. Erdman, Jr., University of Illinois at Urbana-Champaign (Chair)

**Opening Plenary** – Presidential Ballroom

***How Does Obesity Contribute to Cancer Risk? Addressing NCI's Provocative Question #1***

Chair: Wendy Demark-Wahnefried, PhD, RD, UAB Comprehensive Cancer Center

Chair: James C. Fleet, PhD, Purdue University

8:30am-8:40am      Introduction and Session Overview  
Wendy Demark-Wahnefried, PhD, RD, UAB Comprehensive Cancer Center

8:40am-9:15am      *Impact of obesity and weight loss on breast cancer risk*  
Pamela J. Goodwin, MD, MSc, FRCPC, Mount Sinai Hospital, University of Toronto

9:15am-9:50am	<i>Impact of obesity on prostate cancer risk</i> Elizabeth A. Platz, ScD, MPH, Johns Hopkins Bloomberg School of Public Health
9:50am-10:10am	<b>Break</b> —Foyer1/Capital Terrace
10:10am-10:45am	<i>Restricting energy metabolism or increasing physical activity – which is more important for cancer prevention?</i> Jennifer Ligibel, MD, Harvard Medical School, Dana-Farber Cancer Institute
10:45am-11:20am	<i>Biological mechanism(s) by which obesity affects cancer risk</i> Nomelí P. Núñez, PhD, MPH, University of Texas at Austin
11:20am-11:50pm	Summary and Panel Discussion James C. Fleet, PhD, Purdue University
12:00pm–1:30pm	<b>Lunch and Roundtable Discussions</b> —Congressional/Senate and Federal Rooms A/B

**Split Session A – South American Rooms A/B**

***Transgenerational Effects of Diet: Implications for Cancer Prevention***

Chair: John A. Milner, PhD, USDA Beltsville Human Nutrition Center

Chair: Sharon A. Ross, PhD, MPH, National Cancer Institute

1:30pm-1:35pm	Introduction and Session Overview Sharon A. Ross, PhD, MPH, National Cancer Institute
1:35pm-2:00pm	<i>Transgenerational epigenetic control of phenotypic variation and disease risk</i> Joseph Nadeau, PhD, Institute for Systems Biology
2:00pm-2:10pm	Questions and Answers
2:10pm-2:35pm	<i>Maternal protein restriction induces transgenerational epigenetic and phenotypic changes in the offspring</i> Karen A. Lillycrop, PhD, University of Southampton, Southampton, UK
2:35pm-2:45pm	Questions and Answers
2:45pm-3:05pm	<b>Break</b> —Foyer1/Capital Terrace

3:05pm-3:40pm	<i>Generational effects of maternal high-fat diet</i> Tracy L. Bale, PhD, University of Pennsylvania
3:30pm-3:40pm	Questions and Answers
3:40pm-4:05pm	<i>Effects of methyl donor nutrition on transgenerational obesity</i> Robert A. Waterland, PhD, Baylor College of Medicine
4:05pm-4:15pm	Questions and Answers
4:15pm-4:40pm	<i>Epigenetic transgenerational inheritance alters stress responses in a sexually dimorphic manner</i> David Crews, PhD, University of Texas at Austin
4:40pm-4:50pm	Questions and Answers
4:50pm-4:55pm	Session Summary John A. Milner, PhD, USDA Beltsville Human Nutrition Center

#### **Split Session B – Presidential Ballroom**

##### ***Nutrition, Exercise and Bone Health in Cancer Survivorship***

Chair: Cheryl L. Rock, PhD, RD, University of California, San Diego, School of Medicine

1:30pm-1:40pm	Introduction and Session Overview Cheryl L. Rock, PhD, RD, University of California, San Diego, School of Medicine
1:40pm-2:10pm	<i>The role of calcium and vitamin D in bone health in the general population</i> Bess Dawson-Hughes, MD, Tufts University
2:10pm-2:15pm	Questions and Answers
2:15pm-2:55pm	<i>Osteoporosis in cancer survivors: risk, prevention, and treatment options</i> Ari VanderWalde, MD, MPH, MBioeth, Amgen Inc.
2:55pm-3:00pm	Questions and Answers
3:00pm-3:20pm	<b>Break</b> —Foyer1/Capital Terrace
3:20pm-3:45pm	<i>Role of exercise in the prevention and treatment of bone loss in survivors</i> Kathleen Y. Wolin, ScD, FACSM, Washington University School of Medicine
3:45pm-3:50pm	Questions and Answers

3:50pm-4:15pm	<i>Exercise interventions and bone health in cancer survivors</i> M. Tish Knobf, PhD, FAAN, AOCN, Yale University School of Nursing
4:15pm-4:20pm	Questions and Answers
4:20pm-4:50pm	Panel Discussion Cheryl L. Rock, PhD, RD, University of California, San Diego, School of Medicine
5:00pm–7:00pm	<b>Poster Session I Reception</b> —Congressional/Senate Rooms

## FRIDAY, NOVEMBER 2

7:15 – 8:15am	<b>Continental Breakfast</b> —Congressional/Senate Rooms <b>Poster Session II</b>
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**Split Session C** – Presidential Ballroom

### ***Epigenetic Regulation – MicroRNAs, Diet and Cancer Prevention***

Chair: Richard L. Eckert, PhD, University of Maryland School of Medicine

8:15am-8:25am	Introduction and Session Overview Richard L. Eckert, PhD, University of Maryland School of Medicine
8:25am-9:00am	<i>Colon cancer prevention through gene silencing mediated by gut bacteria</i> Chiang J. Li, MD, FACP, Beth Israel Deaconess Medical Center, Harvard Medical School
9:00am-9:10am	Questions and Answers
9:10am-9:45am	<i>MicroRNA and mRNA expression profiling in a rat colon carcinogenesis model: effect of a chemo-protective diet (fish oil and pectin)</i> Robert S. Chapkin, PhD, Texas A&M University
9:45am-9:55am	Questions and Answers
9:55-10:15am	<b>Break</b> —Foyer1/Capital Terrace

10:15am-10:50am	<i>EGFR signals down-regulate tumor suppressors miR-143 and miR-145 in Western diet-promoted murine colon cancer: role of G1 regulators</i> Marc Bissonnette, MD, University of Chicago
10:50am-11:00am	Questions and Answers
11:00am-11:35am	<i>Deregulation of microRNAs and their targets by nutraceuticals</i> Fazlul H. Sarkar, PhD, Wayne State University School of Medicine
11:35am-11:45am	Questions and Answers
11:45am-11:50am	Session Summary Richard L. Eckert, PhD, University of Maryland School of Medicine

#### **Split Session D – South American Rooms A/B**

##### ***The Food Environment and Food Policy: Implications for Cancer Risk***

Chair: June Stevens, MS, PhD, University of North Carolina at Chapel Hill

8:15am-8:25am	Introduction and Session Overview June Stevens, MS, PhD, University of North Carolina at Chapel Hill
8:25am-8:55am	<i>The food environment, diet, and health: what do we know from the existing evidence?</i> Sharon Kirkpatrick, PhD, MHSc, National Cancer Institute
8:55am-9:00am	Questions and Answers
9:00am-9:30am	<i>Measuring food environments in communities: observations and surveys</i> Karen Glanz, PhD, MPH, University of Pennsylvania
9:30am-9:35am	Questions and Answers
9:35am-10:05am	<i>So, what's in your kitchen? measuring the home food environment</i> Dianne S. Ward, EdD, University of North Carolina at Chapel Hill
10:05am-10:10am	Questions and Answers
10:10am-10:30am	<b>Break</b> —Foyer1/Capital Terrace
10:30am-11:00am	<i>Community-based interventions for chronic disease prevention: approaches for changing the food environment</i> Joel Gittelsohn, MS, PhD, Johns Hopkins Bloomberg School of Public Health
11:00am-11:05am	Questions and Answers

11:05am-11:45am      Panel Discussion and Session Summary  
June Stevens, MS, PhD, University of North Carolina at Chapel Hill

11:45am–1:30pm      **Poster Session II Lunch**  
—Congressional/Senate and Federal Rooms A/B

**Closing Plenary Session** – Presidential Ballroom

***Can Food Processing Enhance Cancer Protection?***

Chair: John W. Erdman, Jr., PhD, University of Illinois at Urbana-Champaign

Chair: Elizabeth Jeffery, PhD, University of Illinois at Urbana-Champaign

1:30pm-1:40pm      Introduction and session overview  
John W. Erdman, Jr., PhD, University of Illinois at Urbana-Champaign

1:40pm-2:10pm      *Influence of food processing on retention and bioaccessibility of bioactive food components*  
Marc Hendrickx, PhD, Center for Food and Microbial Technology, KU Leuven, Belgium

2:10pm-2:20pm      Questions and Answers

2:20pm-2:45pm      *Processing crucifers to retain optimal bioactivity*  
Elizabeth Jeffery, PhD, University of Illinois at Urbana-Champaign

2:45pm-2:55pm      Questions and Answers

2:55pm-3:20pm      *Processing of meats to minimize formation of carcinogens and co-carcinogens*  
Amanda J. Cross, PhD, National Cancer Institute

3:20pm-3:30pm      Questions and Answers

3:30pm-3:55pm      *Fermented foods: intake and implications for cancer risk*  
Johanna W. Lampe, PhD, RD, Fred Hutchinson Cancer Research Center

3:55pm-4:05pm      Questions and Answers

4:05pm-4:25pm      Panel Discussion  
John W. Erdman, Jr., PhD, University of Illinois at Urbana-Champaign

4:25pm–4:30pm      **Closing Remarks from AICR**

4:30 pm              **Conference Closes**