

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 *Impact of obesity on prostate cancer risk*
Elizabeth A. Platz, ScD, MPH, Johns Hopkins Bloomberg School of Public Health
- 9:50am-10:10am **Break**—Foyer1/Capital Terrace
- 10:10am-10:45am *Restricting energy metabolism or increasing physical activity – which is more important for cancer prevention?*
Jennifer Ligibel, MD, Harvard Medical School, Dana-Farber Cancer Institute
- 10:45am-11:20am *Biological mechanism(s) by which obesity affects cancer risk*
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 **Lunch and Roundtable Discussions**
—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 *Transgenerational epigenetic control of phenotypic variation and disease risk*
Joseph Nadeau, PhD, Institute for Systems Biology
- 2:00pm-2:10pm Questions and Answers
- 2:10pm-2:35pm *Maternal protein restriction induces transgenerational epigenetic and phenotypic changes in the offspring*
Karen A. Lillycrop, PhD, University of Southampton, Southampton, UK
- 2:35pm-2:45pm Questions and Answers
- 2:45pm-3:05pm **Break**—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	Break —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 *Exercise interventions and bone health in cancer survivors*
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 **Poster Session I Reception**—Congressional/Senate Rooms

FRIDAY, NOVEMBER 2

- 7:15 – 8:15am **Continental Breakfast**—Congressional/Senate Rooms
Poster Session II

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

- 10:15am-10:50am *EGFR signals down-regulate tumor suppressors miR-143 and miR-145 in Western diet-promoted murine colon cancer: role of G1 regulators*
Marc Bissonnette, MD, University of Chicago
- 10:50am-11:00am Questions and Answers
- 11:00am-11:35am *Deregulation of microRNAs and their targets by nutraceuticals*
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 *The food environment, diet, and health: what do we know from the existing evidence?*
Sharon Kirkpatrick, PhD, MHSc, National Cancer Institute
- 8:55am-9:00am Questions and Answers
- 9:00am-9:30am *Measuring food environments in communities: observations and surveys*
Karen Glanz, PhD, MPH, University of Pennsylvania
- 9:30am-9:35am Questions and Answers
- 9:35am-10:05am *So, what's in your kitchen? measuring the home food environment*
Dianne S. Ward, EdD, University of North Carolina at Chapel Hill
- 10:05am-10:10am Questions and Answers
- 10:10am-10:30am **Break**—Foyer1/Capital Terrace
- 10:30am-11:00am *Community-based interventions for chronic disease prevention: approaches for changing the food environment*
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**