

Critical Sulfhydryl Switches, Diet, and Cancer Prevention Workshop

Agenda

Thursday, August 28, 2003

7:30–8:00 a.m.	Registration	
8:00–8:30 a.m.	Opening Remarks	
	Describing the Challenge	<i>E.H. Jeffery, University of Illinois</i>
	Welcome	<i>P. Greenwald, Division of Cancer Prevention</i> <i>J. Milner, Nutritional Sciences Research Group</i>

Session 1: Setting the Scene

8:30 a.m.	Diet and Thiol Biochemistry	<i>D.E. Brash, Yale School of Medicine</i>
8:50 a.m.	Cysteine/Glutathione Deficiency Disease	<i>L. Hertenberg Stanford University</i>

Session 2: Emerging Technology for the Study of Cellular Sulfhydryls

9:10 a.m.	What Methods Are Available for Clinical Evaluation of Thiol Status?	<i>M. Stipanuk Cornell University</i>
9:30 a.m.	How Can We Evaluate Redox in Whole Cells: State of the Art and Novel Approaches	<i>M. Philbert, University of Michigan</i>
9:50 a.m.	Discussion	
10:10–10:30 a.m.	Break	

Session 3: Diet and Thiol Regulation of the Cell Cycle

10:30 a.m.–12:00 noon		
10:30 a.m.	Do Cancer Cells Have an Aberrant Thiol Status In Vivo That Responds to Diet?	<i>G. Buettner, University of Iowa</i>
10:50 a.m.	Does Dietary Cysteine Regulation of the Cell Cycle Provide Clues to Additional Dietary Influences?	<i>D. Jones, Emory University</i>
11:10 a.m.	How Do Dietary Alteration in Glutathione and Thioredoxin Levels Affect Cell Cycle?	<i>A. Holmgren, Karolinska Institutet</i>
11:30 a.m.	Discussion	
12:00 p.m.	Lunch	

Session 4: Site-Specific Modifications of Cell Signaling Proteins by Sulfhydryl Switches

1:00 p.m.	Can Diet Modify Cell Proliferation Through Sulfhydryl Switches on Transcription Factors?	<i>D. Gius, National Institutes of Health</i>
1:20 p.m.	Can Dietary Factors Regulate Activity of Cell Signaling Proteins Through Sulfhydryl Biochemistry?	<i>C.A. O'Brien, University of Texas, M.D. Anderson Cancer Center</i>
1:40 p.m.	How Can Non-Thiol Dietary Components Cause Thiol Regulation of the Cell Cycle?	<i>C.S. Yang Rutgers University</i>
2:00 p.m.	Discussion	

Session 5: Future Directions

3:00–4:00 p.m.	Panel and Floor Discussion on Research Needs	<i>E. Stadtman, National Institutes of Health</i>
4:00 p.m.	Close	