Exfoliated Cells, Bioactive Food Components and Cancer Prevention

Agenda

8:00	Registration			
8:15-8:20	Introduction and Purpose	C. Davis, NSRG		
8:20-8:25	Welcome	P. Greenwald, DCP		
8:25-8:30	Welcome	J. Milner, NSRG		
Overview Speakers:				
8:30-8:55	Bioactive food components in cancer prevention: limitations of serum concentrations as a predictor of response.	R. Rivlin Am. Health Foundation		
8:55-9:20	Molecular pathologies in exfoliated cells: Applications in clinical prevention.	D. Ahlquist Mayo Clinic		
Session I: What are the practical issues regarding the collection of exfoliated cells: yield, quality of cells, difficulty in obtaining samples?				
9:20-9:45	Detecting gene mutations from exfoliated lung epithelial cells obtained in sputum or from bronchioalveolar lavage fluid.	S. Ahrendt Univ. Rochester		
9:45-10:10	Predicting breast cancer risk by mammary epithelium sampling techniques.	S. Khan Northwestern Memorial Hospital		
10:10-10:30	Discussion Session I			
10:30-10:45	Break			
Session II: What have we learned from studies with exfoliated cells?				
10:45-11:05	Biomarkers that are being analyzed from nipple aspirate fluid and ductal lavage in cancer chemoprevention trials.	S. Prindiville NCI		
11:05-11:25	Dynamics of carotenoid turnover in exfoliated colonic epithelial cells	P. Nair Johns Hopkins University		
11:25-11:50	Changes in gene expression in exfoliated cells: role of bioactive food components.	R. Chapkin Texas A & M University		
11:50-12:10	Cytologic and methylation changes in exfoliated bronchial cells predict lung cancer, but why?	T. Byers Univ. Colorado		

12:10-12:30 Discussion Session II

12:30-1:15 Lunch

Session III: Are dietary induced changes in biomarkers that are measured in exfoliated cells indicative of changes in target tissues or are they representative of global changes within the body?

1:15-1:35	Tissue specificity: comparison of lycopene accumulation and DNA damage in exfoliated human lung epithelial cells and lymphocytes.	S. Steck Stock Univ. North Carolina
1:35-1:55	Relationship between DNA methylation in exfoliated cells and target tissues	C. Piyathilake Univ. Alabama
1:55-2:15	Effect of dietary components on micronuclei formation in exfoliated cells.	J. Mumford EPA, North Carolina
2:15-2:40	Discussion Session III	
2:40-2:55	Break	
2:55-3:45	Future Directions: Setting research priorities in the utilization of exfoliated cells in nutrition and cancer studies	C. Davis NSRG

3:45 Adjourn