

Immunonutrition - Enhancing Tumoricidal Cell Activity

Agenda

Thursday, March 23, 2005

Time	Topic	Speaker
7:45 a.m. - 8:15 a.m.	Continental Breakfast and Registration	
8:15 a.m. - 8:20 a.m.	Purpose of the Workshop	<i>Susan Percival, Nutritional Science Research Group, Division of Cancer Prevention (DCP), National Cancer Institute (NCI)</i>
8:20 a.m. - 8:25 a.m.	Welcome	<i>Peter Greenwald, DCP, NCI</i>
8:25 a.m. - 8:30 a.m.	Welcome	<i>John Milner, NRS, DCP, NCI</i>
8:30 a.m. - 9:10 a.m.	How Compelling Are the Data Regarding Nutritional Influences on Our Immunity?	<i>M. Eric Gershwin, University of California, Davis</i>
9:10 a.m. - 9:20 a.m.	Discussion	<i>Moderator: Susan Percival, NRS, DCP, NCI</i>

Session 1: Role of Immunocompetence in Cancer

Time	Topic	Speaker
9:20 a.m. - 9:50 a.m.	Biology of $\gamma\delta$ T Cells: What Is the Relationship Between $\gamma\delta$ T Cells and Cancer? Will an Increased Number and/or Function of $\gamma\delta$ T Cells Result in Lower Cancer Incidence?	<i>Wendy Havran, The Scripps Research Institute</i>
9:55 a.m. - 10:25 a.m.	Biology of NK Cells: What Is the Relationship Between NK Cells and Cancer? Will an Increased Number and/or Function of NK Cells Result in Lower Cancer Resistance?	<i>Stephen Anderson, NCI at Frederick</i>

10:25 a.m. - 10:35 a.m.	Discussion	<i>Moderator: Kevin Fritsche, University of Missouri, Columbia</i>
10:35 a.m. - 10:45 a.m.	Break	

Session 2: Models of Dietary Factors, Immunity, and Cancer

Time	Topic	Speaker
10:45 a.m. - 11:15 a.m.	Is the Increase in $\gamma\delta$ T Cell Priming by Dietary Alkylamines Sufficient to Prevent Cancer? What Other Components of the Diet Prime $\gamma\delta$ T Cells?	<i>Jack Bukowski, Brigham and Women's Hospital and Harvard Medical School</i>
11:15 a.m. - 11:45 a.m.	How Can We Best Show Directly That Immunity Influenced by Diet Modifies Cancer?	<i>Homer Black, Baylor College of Medicine</i>
11:45 a.m. - 11:55 a.m.	Discussion	<i>Moderator: Simin Meydani, Tufts University</i>
12:00 noon - 1:00 p.m.	Lunch	

Session 3: Dietary Modifiers of Tumoricidal Immunity

Each speaker will be asked to answer the following questions for his or her particular nutrient area: Which nutritional interventions appear to be most promising to improve immunosurveillance? What is the range of effective intake? Are there key immunologic nutrients or bioactive food components?

Time	Topic	Speaker
1:05 p.m. - 1:25 p.m.	How Are Dietary Signals (Probiotics and Prebiotics) Processed by GI Cells To Effect Measurable Changes in Immune Parameters Systemically?	<i>Norman Hord, Michigan State University</i>
1:25 p.m. - 1:45 p.m.	Are Omega-3 Fatty Acids Effective in Enhancing Tumoricidal Cell Activity?	<i>Kevin Fritsche, University of Missouri, Columbia</i>
1:45 p.m. - 2:05 p.m.	Are Fat-Soluble Vitamins Effective in Enhancing Tumoricidal Cell Activity?	<i>Simin Meydani, Tufts University</i>

2:05 p.m. – 2:25 p.m.	Is Zinc Effective in Enhancing Tumoricidal Cell Activity?	<i>Susanna Cunningham-Rundles, Cornell University</i>
2:25 p.m. - 2:45 p.m.	Are Amino Acids Effective in Enhancing Tumoricidal Cell Activity?	<i>Suzanne Klimberg, University of Arkansas</i>
2:45 p.m. - 3:15 p.m.	Discussion	<i>Moderator: Pam Fraker, Michigan State University</i>
3:15 p.m. - 3:30 p.m.	Summary	<i>Susan Percival, DCP, NCI</i>
3:30 p.m.	Adjournment	