

Research Strategies, Study Designs and Statistical Approaches to Biomarkers Validation for Cancer Diagnosis and Detection

Agenda

Wednesday, July 28, 2004

8:00 a.m.	Welcome <i>Dr. Peter Greenwald, Director, DCP</i>
8:10 a.m.	Institute / Agency Perspectives <i>NCI (Dr. Anna Barker) and FDA (Dr. Theresa Mullin)</i>
8:45 a.m.	Workshop Goals and Objectives <i>Dr. Sudhir Srivastava</i>
9:00 a.m.	Biomarkers in the clinical trial design for diagnosis and early detection <i>Dr. Don Berry</i>
9:30 a.m.	Biomarkers of Early Detection: Statistical Perspectives <i>Dr. Stuart Baker</i>
10:00 a.m.	Some aspects of the use of high dimensional data for cancer risk determination <i>Dr. Ross Prentice</i>
10:30 a.m.	Break
10:50 a.m.	Panel Discussion: Review and Weaknesses of Observational Data on Biomarkers Utility in Cancer Detection and Diagnosis Moderators: - Drs. Susan Ellenberg and Ross Prentice Strengths and Weaknesses of Observational Validation Designs for High Dimensional Data: - Dr. Richard Simon Proteomics: - Dr. Ziding Feng Genomics: - Dr. Yudong He
12:00 noon	Lunch Break

1:30 p.m.	<p>Panel Discussion: Strengths and Weaknesses of Longitudinal and Cohort-based Designs; Piggy-Backing Approach through Treatment and/or Prevention Trials</p> <p>Moderators: Drs. Bob O'Neil and Richard Schilsky</p> <p>Dr. Donna (Pauler) Ankerst Dr. Garnet Anderson Dr. Sylvan Green</p>
3:00 p.m.	Break
3:15 p.m.	<p>Experimental Designs and Analytical Methods To Support Validation of Biomarkers for Detection and Diagnosis:</p> <p>Moderators: Drs. Lance Liotta and Sylvan Green</p> <ul style="list-style-type: none"> • Definitions of risk, early detection, diagnosis and prognosis for biomarkers and algorithms in statistical and clinical contexts: -Dr. Steven Skates • Flexible study designs for ongoing and future trials to accommodate emerging biomarkers and technology: -Dr. Sue-Jane Wang • Acceptable data reduction approach for high dimensional data derived from high throughput assays:- Dr. Yu Shyr • Non-traditional methods, including modeling for biomarker validation: - Dr. Robert Boer • Algorithms to combine multiple markers deriving from high throughput discovery: -Dr. Martin McIntosh
5:30 p.m.	Adjourn Day I

Thursday, July 29, 2004

8:00 a.m.	<p>FDA Guidelines for Technology and Biomarker Evaluation</p> <p>Dr. Steven Gutman</p>
9:00 - 12:00 P.M.	<p>Breakout Group I</p> <p>Analytical and Performance Characteristics</p> <p>Co Chairs: Drs. Stuart Baker, Martin McIntosh, Steven Skates and Yu Shyr</p> <p>Breakout Group II</p> <p>Considerations for Biomarker validation regulatory requirements for Commercialization</p> <p>Co-Chairs: <i>Drs. Emmanuel Petricoin, Sudhir Srivastava, and Lakshmi Vishnuvajjala</i></p>

	<p>Breakout Group III Development of Alternative, Non-Traditional Approaches to Biomarker Validation Co-Chairs: <i>Drs. Ziding Feng, Sue-Jane Wang, Ralph Kodell</i></p> <p>Breakout Group IV Clinical and biological challenges: Biological perspective Co-Chairs: <i>Drs. William Grizzle, Dean Brenner, and Jose Costa</i></p> <p>Breakout Group V Biological specimen from large Institutional Trials In Support of Biomarker Validation Co-Chairs: <i>Drs. Steven Hirschfeld, Ross Prentice, and Padma Maruvada</i></p>
10:00 a.m.	Break
12:00 noon	Lunch Break
1:30 p.m.	<p>Report Presentation of Breakout Sessions Discussants:</p>
3:00 p.m.	<p>Development of a Position Paper on Biomarker Validation Assignment of Report Writers</p> <p>Non-NCI and Non-FDA Chairs: Chairs of Breakout Groups</p> <p>NCI and FDA: Drs. Lance Liotta, Greg Downing, Greg Campbell, Ziding Feng, Sudhir Srivastava, and Padma Maruvada</p>
4:00 p.m.	Adjourn at Day II