

ATTACHMENT E

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Background

On October 27-28, 2008, the EPA Science Advisory Board will hold a one-and-a half-day meeting entitled *Future Science and Research: Next Steps for Integrated Science*. The meeting will focus on two topics:

- Biofuels: What are the net environmental implications?
- Epigenomic research: What are the implications for environmental health sciences and human health risk assessment?

This seminar-style meeting will be followed by a half-day advisory meeting on October 28th, when the chartered SAB will discuss possible implications of the October 27th meeting for ongoing SAB advice on EPA research.

Exploration of "next steps for integrated science" for biofuels and epigenomic research is intended to provide the chartered SAB with an inter-disciplinary introduction to these topics. It is also intended to stimulate SAB thinking generally about future advice to strengthen EPA's response to emerging science issues, especially how EPA might implement inter-disciplinary approaches that incorporate significant emerging research.

In 2007, the chartered SAB committed to provide ongoing advice on strategic research directions for EPA and how they can be implemented. This activity complements the SAB's traditional review of EPA's annual research budget. Exploration of emerging science on biofuels and genomics from different disciplines may stimulate SAB advice encouraging EPA to address inherent complexities and interconnections among human and ecological systems through integrated, multi-disciplinary approaches.

EPA Science Advisory Board (SAB) Meeting
Future Science and Research: Next Steps for Integrated Science
October 27, 2008
Draft Agenda

Purpose: To stimulate SAB thinking about priorities for meeting critical environmental problems with an integrated approach to interdisciplinary science and research.

8:00 - 8:10	Welcome	SAB Chair
8:10 – 12:00	Biofuels: What are the net environmental implications?	
	Introduction	Dr. M. Granger Morgan, SAB
8:10 – 10:00	Sustainable Paths to a Biofuel-Powered Transportation Sector	Dr. Bruce Dale, Michigan State University (presente and Dr. Lee Lynd, Dartmouth College
	Biofuels and ecosystem services	Dr. David Tilman, University of Minnesota
	Biofuels potential: The climate protective domain	Dr. Christopher Field, Carnegie Institution
	Why biofuels do not make any sense	Dr. Vclav Smil, University of Manitoba
10:30 – 12:00	SAB discussion with invited speakers	
12:00 – 1:15	Lunch	
1:15 – 4:45	Epigenomics research: What are the implications for environmental health sciences and human health risk assessment?	
	Introduction	Dr. Deborah Cory-Slechta, SAB
1:15 – 3:45	Epigenetics and human health - New challenges and new approaches	Dr. Mark Hanson, University of Southampton
	Epigenetics: The new genetics of disease susceptibility	Dr. Randy Jirtle, Duke University
	Transgenerational epigenetic actions of environmental factors on disease	Dr. Michael Skinner, Washington State University
3:45 – 4:45	SAB discussion with invited speakers	
4:45 – 5:00	Final Remarks and Adjourn	SAB Chair