PLENARY

HESI Emerging Issues Session
12 June 2013

Rapporteur Reports

(5 mins each)

Group 1: Alternatives to Animal Testing
Craig Rowlands (Dow)

Group 2: Exposure Science
Don Marsh (Merck)

Group 3: Epigenetics in Safety and Risk Assessment
Mark Hurtt (Pfizer)

Group 4: In Vitro to In Vivo Extrapolation
Tim Pastoor (Syngenta)

Group 5: Safety Assessment for New Therapeutic Modalities
Mike Graziano (BMS)

Group 6: Personalized Medicine and Individual Susceptibility
Dave Brewster (Vertex)

Open Discussion

GENERAL FEEDBACK

POSSIBLE DISCUSSION QUESTIONS:

- **In which areas can HESI provide leadership that's currently lacking?**
- **New directions, approaches, out-of-the-box thinking?**
- **Is HESI's Scientific Portfolio too narrow? Too broad? Are there significant gaps?**
- **Advice for the EIC and Board PSSC (joint meeting tomorrow afternoon)?**

Additional Resources (if needed)

2013 HESI Scientific Portfolio

Technical Committees

- Animal alternatives in environmental risk assessment
- Application of genomics to mechanism-based risk assessment
- Cardiac safety
- Developmental and reproductive toxicology (DART)
- Genetic toxicology
- Immunotoxicology
- Protein allergenicity
- Risk assessment for the 21st century (Risk 21)

Project Committees

- Biomarkers of nephrotoxicity
- Development of methods for a tiered approach to assess bioaccumulation of chemicals
- Use of imaging for translational safety assessment
- Vaccines and adjuvants safety

Emerging Issues Subcommittees

- Evaluating causality in epidemiologic studies
- Frameworks for alternative chemical assessment and selection of safer, sustainable alternatives
- Translational biomarkers of neurotoxicity

In Program Book, Emerging Issues Session tab

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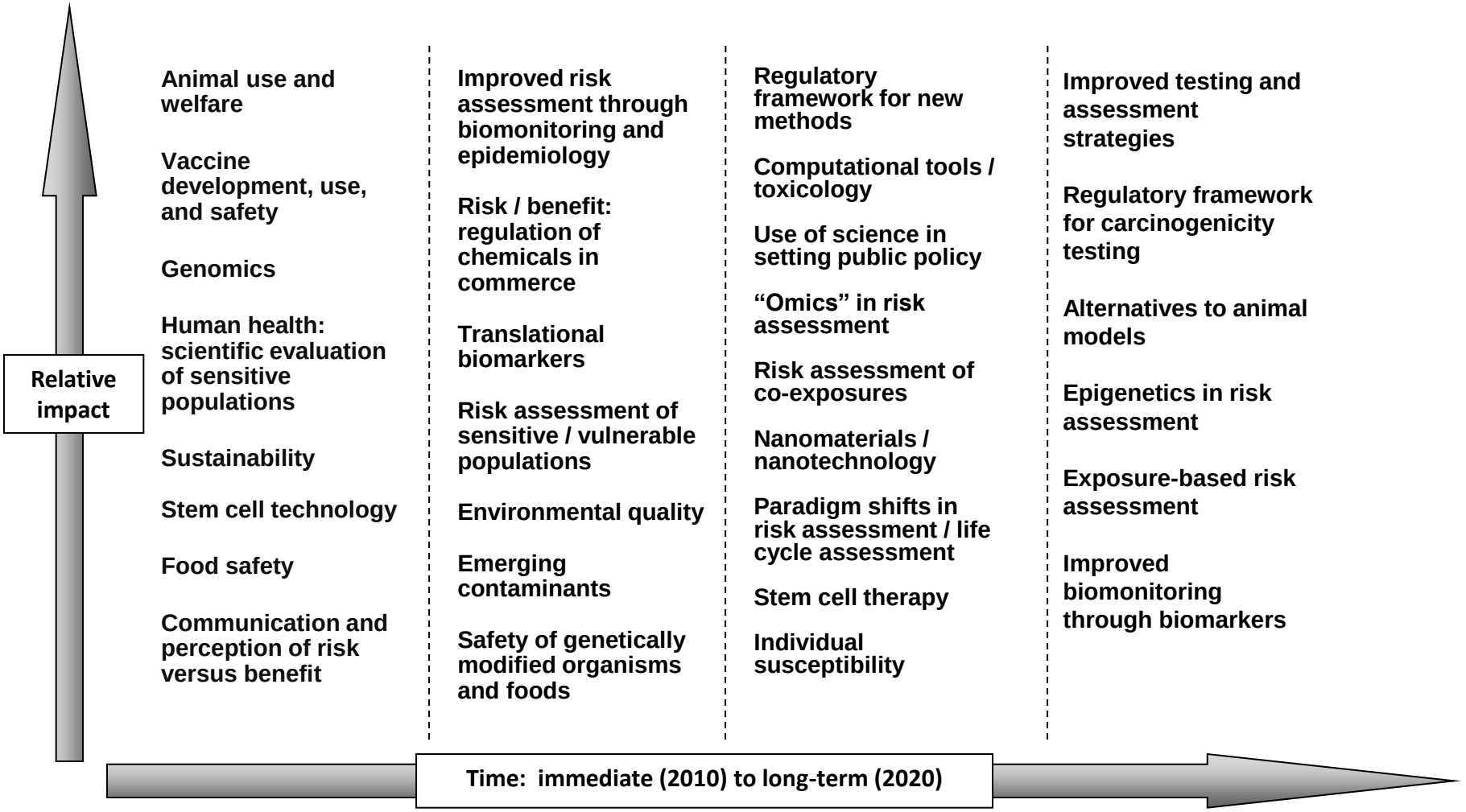
2010-2020 HESI COMBINED CHALLENGES MAP



Each axis appearing on the 2010-2020 HESI Combined Challenges Map is a continuum. All issues on the map are of high importance/impact based on prioritization by the participants in the 2009 HESI mapping exercise. "Relative impact" is a qualitative measure of importance among high priority topics. The location of issues along the "time" continuum is an approximation of when the topic is likely to become a major issue in the timeframe from 2010 to 2020.

ILSI Health and Environmental Sciences Institute
Strategic Plan: 2011- 2015