RISK Assessment for the 21st Century (RISK21): A Vision and a Plan

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RISK21 Co-Chair
The Stimulus for RISK21: NAS Reports

- "Toxicity Testing In The 21st Century"
  - "...transformative paradigm shift..."
  - "...new methods in computational biology and a comprehensive array of in vitro test based on human biology."

- "Science and Decisions: Advancing Risk Assessment"
  - Design of Risk Assessment
  - Uncertainty and Variability
  - Selection and Use of Defaults
  - A Unified Approach to Dose-Response Assessment
  - Cumulative Risk Assessment
The Vision of RISK21

• Initiate and stimulate a proactive and constructive dialog amongst experts from industry, academia, the government and other stakeholders to identify key advancements in risk assessment

• Use this group to guide the development and use of risk assessment approaches that embrace these advances in scientific knowledge and methods

• Lead a “sea-change” to revise current thinking about how to approach the science and art of risk assessment
The RISK21 Project

**MISSION:**
Bringing applicable, accurate, and resource appropriate approaches to the evolving world of human health risk assessment

**Project Co-chairs:**
- Alan Boobis (Imperial College London)
- Tim Pastoor (Syngenta)

**Steering Team advisors:**
- David Bell (ECHA)
- Ian Dewhurst (UK Chemical Regulation Directorate)
- Angelo Moretto (Univ. Milan)
- Dick Phillips (ExxonMobil)
- Doug Wolf (EPA)
- John Doe (ParkerDoe Partnership)

**Dose-Response:**
- Sam Cohen (Univ Nebraska)
- Craig Rowlands (Dow)

**Exposure:**
- Mike Dellarco (NIH)
- Dana Sargent (Arysta Life Sciences)
Project Financial Supporters
2010 Progress

• Project leads identified and steering team formed

• Reception held at Society of Toxicology Meeting in Salt Lake City, UT; over 75 participants attended

• Balanced, global, tripartite project teams formed, with scheduled monthly teleconferences
  – >100 participants actively engaged from diverse sectors

• Face-to-face meetings of each of the 4 project teams completed during 2010

• Teams have developed mission & objectives and are actively working on key projects
What RISK21 Is...

- Science-based initiative
- Multi-sector representation
- Dedicated to better human health risk assessment
RISK21: A Vision and a Plan

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