



H E S I

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

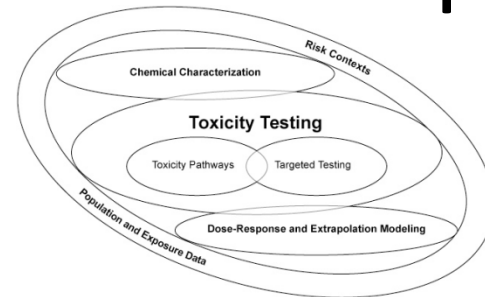
Tim Pastoor, PhD, DABT

RISK21 Co-Chair

The Stimulus for RISK21: NAS Reports

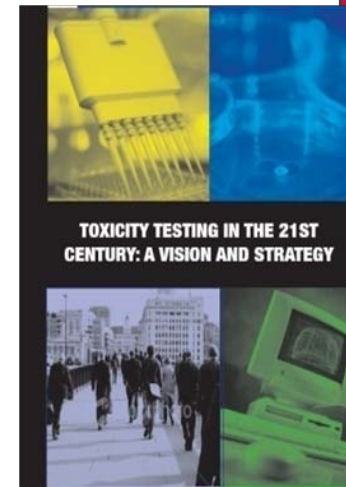
– “Toxicity Testing In The 21st Century”

- “...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)

Cumulative Risk:

Angelo Moretto (Univ. Milan)

Dick Phillips (ExxonMobil)

IES:

Doug Wolf (EPA)

John Doe (ParkerDoe Partnership)

Dose-Response:

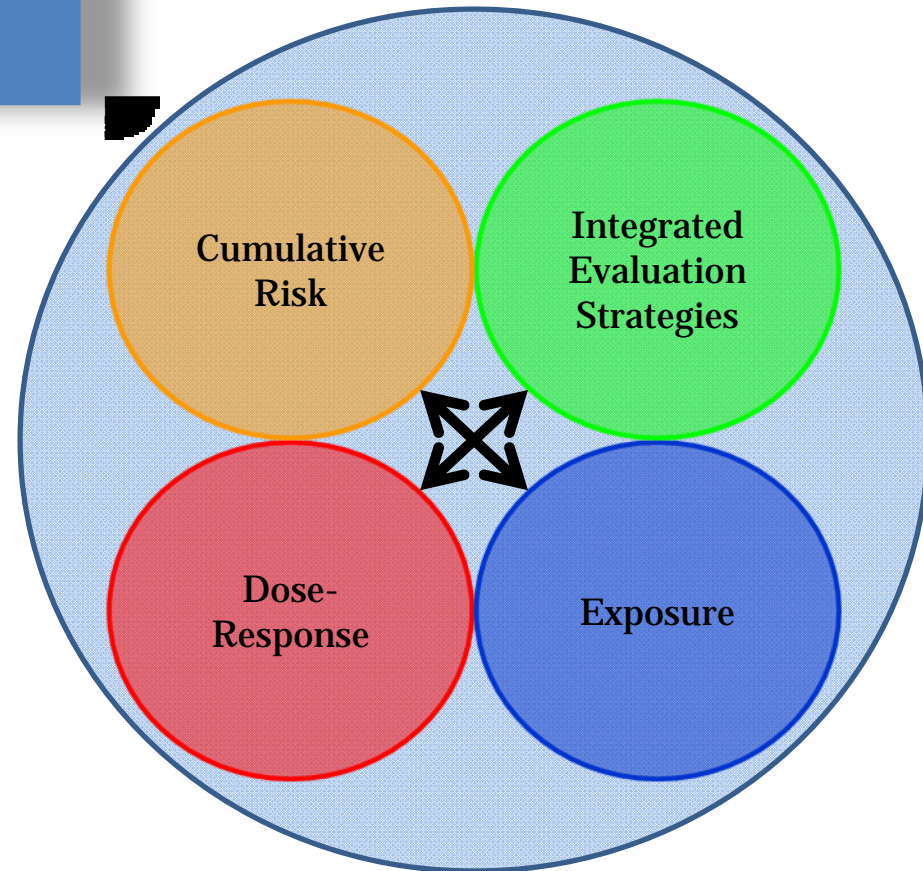
Sam Cohen (Univ Nebraska)

Craig Rowlands (Dow)

Exposure:

Mike Dellarco (NIH)

Dana Sargent (Arysta Life Sciences)



Project Financial Supporters



2010 Progress

Jan

- Project leads identified and steering team formed

Mar

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

Jun

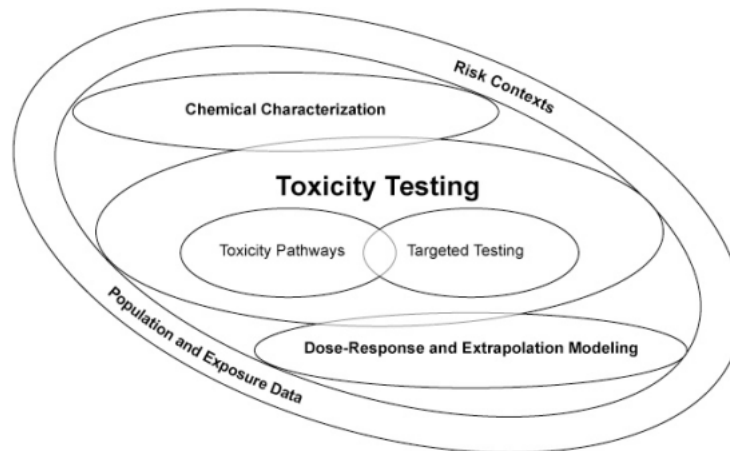
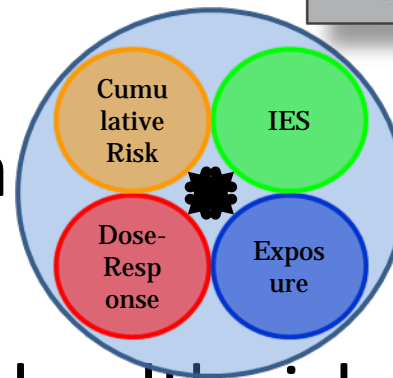
- Balanced, global, tripartite project teams formed, with scheduled monthly teleconferences
 - >100 participants actively engaged from diverse sectors

Sep

- 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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