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HESI Bioaccumulation Project Committee
***In Vivo* Experts Workshop**

German Federal Environment Agency (UBA)
Bismarckplatz 1
14193 Berlin
May 17-18, 2012
Berlin, Germany

Workshop Objectives

1) Share results and lessons learned from recent research programs related to *in vivo* bioaccumulation data generation and interpretation

- CEFIC LRI projects
  - Development and validation of an abbreviated in vivo fish bioconcentration test (ECO14a)
  - Alternative methodology for standard laboratory fish bioconcentration tests (ECO14b)
  - Rapid estimation of TMF using laboratory, field and computer modelling methods in aquatic organisms (ECO15)
- OECD efforts on 305 test guideline revision including dietary test round robin
- New HESI project on update of laboratory BCF and BMF databases for fish and calibration / verification of improved mechanistic models
- CERI work - Japanese experience in applying aqueous and dietary exposures
- USEPA & SFU work – progress in linking in-vitro to in-vivo
- UW update – progress in applying passive sampling for tissue analysis
- Industry update – recent experience in applying in-vivo methods
- Bioaccumulation in sediment organisms, comparability of results and use of data

2) Identify strategic opportunities for future HESI bioaccumulation steering group efforts

- short and longer term research
- communication / training / tools
- collaborations

3) Deliverables

- Summary of the workshop for presentation at the SETAC BSAG meeting and as a short communication in the SETAC Globe

Agenda

Thursday, May 17, 2012

18:30 Dinner Reception for Workshop Participants
Restaurant 12 Apostel Berlin-Mitte, Georgenstraße 2

Friday, May 18, 2012

8:00 Welcome, Introduction, & Workshop Goals
Michelle Embry, HESI *(via phone)*

8:30 – 12:30 Presentations by workshop participants to highlight recent research progress (15 minutes + 5 minutes for questions)
Presentations will summarize new information and are intended to provide a digest of new data, models, and insights gained from recent or planned work. Presenters will also provide a list of key recommendations for advancing the use of current and new science in decision-making.

8:30 John Nichols, USEPA
In vivo testing of chemicals that undergo substantial biotransformation: An opportunity to advance in vitro-in vivo metabolism extrapolation procedures for fish

8:50 Daniel Merckel, Environment Agency UK
OECD 305 test guideline revision

9:10 Naoki Hashizume, CERI, Japan
Dietary 'B' assessment: Comparison of the BCF and BMF for Chemicals using Common Carp

9:30 Matthew MacLeod, Stockholm University
Development and validation of an abbreviated in vivo fish bioconcentration test (CEFIC ECO14a)
Rapid estimation of TMF using laboratory, field and computer modelling methods in aquatic organisms (CEFIC ECO15)

9:50 Duane Huggett, University of North Texas
Development of an abbreviated in vivo fish bioconcentration test

10:10 BREAK

10:30 Frank Gobas, Simon Fraser University
Progress towards the development and testing of in-vivo bioaccumulation assessment methods for metabolizing substances

10:50 Jon Arnot, University of Toronto
Improving mechanistic models for bioaccumulation assessment

11:10	Mark Servos, University of Waterloo *Development of "in vivo" solid phase micro-extraction (SPME) for bioaccumulation in fish*
11:30	Tom Parkerton, ExxonMobil *Passive dosing, passive sampling, and weight of evidence framework for 'B' assessment*
11:50	Kent Woodburn, Dow Corning *Advances in bioaccumulation assesment*
12:10	Philipp Egeler, ECT, Germany *Bioaccumulation in benthic oligochaetes*
12:30	LUNCH
1:30 – 5:00	Discussion sessions and breakout groups *The goal of the afternoon session will be to prioritize key needs in this area and identify strategic opportunities for future HESI Bioaccumulation Committee efforts (research, training, collaborative opportunities, etc.)*
1:30	Summary of the morning presentations Caren Rauert, UBA
1:45	Breakout session #1 *Participants will divide into two groups, charged with addressing the following in light of the summary presentation:* ▪ *Is there any other ongoing research / datasets that have not been presented that we should be aware of?* ▪ *Is there other new information and recommendations that should be considered?*
2:30	Plenary session *Participants will reconvene and agree upon a consolidated list of focus areas / needs. Each group will provide a brief report-out followed by discussion.*
3:00	BREAK
3:15	Breakout session #2 *Participants will divide into two groups, charged with prioritizing the consolidated list of focus areas / needs and identifying next steps necessary to move the areas forward (databases, research, training, partnerships, etc.)*
4:15	Plenary session & facilitated discussion *Participants will reconvene and provide a brief report-out on their priority list. Workshop participants will work to agree on a priority list as the main deliverable from the meeting.*
5:15	Adjourn