



# Insights

Your Monthly Update of News and Notes from HESI



## May 2014



*“For 25 years, HESI has consistently provided very concrete and effective contributions to the task of improving human and environmental health. It has done this through volunteerism, partnering, and the dedication of a very talented staff, re-inventing itself several times along the way with agility and foresight. At the core of HESI’s success is Science. Science is about dedication and hard work; it is about challenges and change; but most of all, it is about people. HESI is unique in its ability to bring together diverse people that make each of us a better scientist; they also made me a better person.”*

Marc S. Bonnefoi, DVM, PhD, DABT (Sanofi)  
HESI Vice President, 2007-2008  
HESI President, 2009 -2011

**HESI Appoints New Editor-in-Chief for Its Peer Review Process.** The HESI Board of Trustees proudly announces the appointment of **James Klaunig, PhD, Fellow ATS, Fellow IATP**, as the Editor-in-Chief of the HESI Peer Review Process for the period June 2014 to June 2017. Dr. Klaunig, Professor of Environmental Health at the Indiana University School of Public Health, was selected from a number of highly qualified candidates with international recognition, familiarity with the HESI organization, and experience on editorial boards for prominent peer-reviewed scientific journals. Dr. Klaunig has a long history with HESI, and currently serves on the organization’s Emerging Issues Committee as a Science Advisor. The HESI Editor-in-Chief, a volunteer public sector scientist, is charged with safeguarding the scientific quality of manuscripts developed by HESI for publication.

The HESI Peer Review Process is considered among the highest priorities of the organization. See the [HESI website](#) for more information about the HESI Peer Review Process or contact Ms. Nancy G. Doerrer at [ndoerrer@hesiglobal.org](mailto:ndoerrer@hesiglobal.org).

**HESI-Coordinated Study to Provide Data for Proposed OECD Test Guideline.** The HESI Bioaccumulation Committee will conduct an experimental ring trial study to obtain an estimate of intrinsic hepatic clearance using fish liver S9 fractions or isolated primary hepatocytes. The data from this ring trial will support the development by OECD of an *in vitro* fish hepatic metabolism test. The Standard Project Submission Form, including the HESI-coordinated ring trial study, was proposed by the US and the European Commission and was accepted at an April 2014 OECD Test Guidelines Programme workplan meeting. An OECD Expert Group will be formed in the coming months to provide guidance on the ring trial project and develop a draft test guideline. Study design and biological material preparation are currently in progress, with the goal of initiating experimental work in the third quarter of 2014. For more information, contact Dr. Michelle Embry at [membry@hesiglobal.org](mailto:membry@hesiglobal.org).

## UPCOMING EVENTS



**HESI Annual Meeting.** There's still time to register for our 10–12 June 2014 Annual Meeting! The meeting will be held in Washington, DC, and attendance is **FREE**. We are celebrating our 25th Anniversary, and the meeting program will feature dynamic speakers and great science. Registration and additional information are available [here](#).

For more information, contact Ms. Cyndi Nobles at [cnobles@hesiglobal.org](mailto:cnobles@hesiglobal.org). **Registration closes on 19 May 2014.**

**HESI Outreach Webinar.** HESI will hold a webinar on “Assessing and Comparing Chemicals for Sustainable Alternatives: Challenges and Strategies” on 5 June 2014 at 8:00 – 9:00 PM Eastern Daylight Time / 6 June 2014 at 9:00 – 10:00 AM Tokyo, Japan. Pamela J. Spencer, PhD, DABT (The Dow Chemical Company) will summarize efforts to find more sustainable, safer chemical alternatives to replace chemicals or technologies of high concern to human health and the environment. She will also provide an overview of the HESI Sustainable Chemical Alternatives Technical Committee's progress to develop guidance for alternative chemical assessment. The webinar is scheduled in the morning Japan Time for the convenience of those in Asia but open to all interested participants globally. To register for this free webinar, please contact Ms. Cyndi Nobles at [cnobles@hesiglobal.org](mailto:cnobles@hesiglobal.org).

**HESI Science at the Green Chemistry & Engineering Conference.** HESI will participate in the [18th Annual Green Chemistry & Engineering Conference](#) on 17–19 June 2014 in Bethesda, Maryland. The HESI Sustainable Chemical Alternatives Committee will present poster #333 titled “Multi-Stakeholder Recommendations for Sustainable Chemical Alternatives Assessment.” In addition, this project, as well as the HESI Risk Assessment in the 21st Century (RISK21) project, will be highlighted with a poster during the American Chemical Society Green Chemistry Institute Roundtable Poster Reception. For more information, contact Dr. Jennifer Young Tanir at [jtanir@hesiglobal.org](mailto:jtanir@hesiglobal.org).



### **Registration Is Now Open — Workshop on Genetic Toxicology at the Crossroads: From Qualitative Hazard Evaluation to Quantitative Risk**

**Assessment.** The HESI Genetic Toxicology Technical Committee is organizing this 10-11

July 2014 satellite workshop immediately following the European Environmental Mutagen Society 2014 Annual Meeting in Lancaster, United Kingdom. It is becoming increasingly apparent that the genetic toxicology community should move away from qualitative hazard-based approaches to quantitative risk-based methodologies in order to facilitate data interpretation in the context of informing human risk. The workshop will bring together experts in the fields of genetic and general toxicology, risk assessment, and computational biology representing industry, academia, and government to address and make recommendations on a path forward on this topic, including the identification of any key data gaps in our knowledge that require further research. For more information, visit the workshop [website](#) or contact Dr. Jennifer Young Tanir at [jtanir@hesiglobal.org](mailto:jtanir@hesiglobal.org). **Register by 30 May 2014 to take advantage of the reduced registration fee!**

### **Recent Publications.**

Chen CL, Beyer BK, Breslin WJ, DeLise AM, Hui JY, Moffat GJ, Thompson KE. (2014). Introduction to the HESI Drugs in Semen Consortium [published online ahead of print 2014 May 4]. *Reprod Toxicol*. doi:10.1016/j.reprotox.2014.04.007.

Gautier JC, Gury T, Guffroy M, Khan-Malek, R, Hoffman D, Pettit S, Harpur E. (2014). Normal ranges and variability of novel urinary renal biomarkers in Sprague-Dawley rats: comparative of constitutive values between males and females across assay platforms [published online ahead of print 2014 March 26]. *Toxicol Pathol*. doi:10.1177/0192623313520352.

- Gautier JC, Gury T, Guffroy M, Masson R, Khan-Malek R, Hoffman D, Pettit S, Harpur E. (2014). Comparison between male and female Sprague-Dawley rats in the response of urinary biomarkers to injury induced by gentamicin [published online ahead of print 2014 April 9]. *Toxicol Pathol*. doi:10.1177/0192623314524489.
- Johnson GA, Calabrese E, Little PB, Hedlund L, Qi Y, Badea A. (2014). Quantitative mapping of trimethyltin injury in the rat brain using magnetic resonance histology. *Neurotoxicology*. 42C: 12–23.
- Johnson GE, Soeteman-Hernández LG, Gollapudi BB, Bodger OG, Dearfield KL, Heflich RH, Hixon JG, Lovell DP, MacGregor JT, Pottenger LH, Thompson CM, Abraham L, Thybaud V, Tanir JY, Zeiger E, van Benthem J, White PA. (2014). [Derivation of point of departure \(PoD\) estimates in genetic toxicology studies and their potential applications in risk assessment](#) [published online ahead of print 2014 May 6]. *Environ Mol Mutagen*. doi:10.1002/em.21870.

### Opportunity to Join New HESI Study on Biomarkers of Neurotoxicity.

Environmental toxicants and a growing inventory of industrial chemicals that have been linked to neurological damage and attrition due to neurotoxicity represent a significant issue in all stages of drug development. The HESI Subcommittee on Translational Biomarkers of Neurotoxicity recognizes current challenges associated with traditional assessment methods for neurotoxicity (e.g., behavioral and histopathology), including sensitivity and specificity as well as invasive sampling. The team has drafted an initial experimental protocol that will evaluate possible fluidic and imaging biomarkers and compare them to the current histology methods. The study includes rethinking biomarkers from traditional functional end points and traditional sectioning, and it will address gaps in sensitivity and specificity of biomarkers across modalities. This project is at a pivotal point. Now is a great time to learn more and join the group. HESI members interested in learning more or participating in this project may contact Ms. Jennifer Pierson at [jpierson@hesiglobal.org](mailto:jpierson@hesiglobal.org).

**ILSI Health and Environmental Sciences Institute**  
 1156 Fifteenth Street, NW Suite 200  
 Washington, DC 20005-1743  
 202.659.3306 phone  
 202.659.3617 fax

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### Call for Abstracts for SETAC Session on Sustainable Alternatives.

The HESI Sustainable Chemical Alternatives Committee invites abstract submissions for their session on “Recent Advances in Sustainable Chemicals Alternatives Assessment” at the [24th Annual SETAC North America Conference](#), to be held 9–13 November 2014, in Vancouver, British Columbia, Canada. Presentations representing multi-stakeholder collaborations as well as other recent advances in alternative chemical assessment are welcome at this session. Contact Dr. Jennifer Young Tanir at [jtanicr@hesiglobal.org](mailto:jtanicr@hesiglobal.org) for more information. **Abstract submission closes on 28 May 2014.**

### FROM THE EXECUTIVE DIRECTOR

This month, I am pleased to use my Insights space to commend the HESI Bioaccumulation Committee for their recent achievements (see article above). They are the first HESI committee to serve as the primary experimental resource for a pending laboratory study that was recently accepted as part of the OECD Test Guidelines Programme workplan and sponsored by the EU and US National Test Guideline Coordinators. Congratulations on this important acknowledgement of this committee’s scientific rigor and expertise in the field of bioaccumulation.