



April 2014

HESI Science at SOT. Click [here](#) to see the comprehensive list of scientific posters, symposia, and workshops at the 2014 Annual Meeting of the Society of Toxicology (SOT) that featured HESI science. This year's speaker at the HESI CITE Seminar (formerly known as the HESI SOT Lunchtime Seminar), held on 24 March 2014, was Dr. Peter Kuhn (Scripps Research Institute), a dynamic scientist bringing together physics and oncology to create powerful applied translational science for detection of circulating tumor cells. Additional information about Dr. Kuhn's research can be found [here](#).



Bridging Cardiology and Oncology, Nonclinical and Clinical. On 12-14 March 2014, representatives of the HESI Cardiac Safety Committee participated in the International Colloquium on Cardio-Oncology (Rome, Italy). The field of cardio-oncology seeks to optimize the efficacy of cancer treatments (drug and radiation) while limiting or eliminating the long-term adverse cardiovascular effects associated with many of these treatments. Although the meeting was predominantly attended by clinical cardiologists and oncologists, the Committee hosted a well-attended round-table to explore opportunities to improve the long-term health of oncology patients through enhanced nonclinical safety modeling and evaluation. A post-meeting publication is anticipated. For more information, please contact Ms. Syril Pettit (spettit@hesiglobal.org).

CIPA Working Groups. HESI, the US Food and Drug Administration (FDA), the Cardiac Safety Research Consortium, and the Safety Pharmacology Society convened a recent meeting of the Comprehensive In Vitro Proarrhythmia Assay (CIPA) working groups on 10-11 March 2014 at US FDA White Oak in Silver Spring, Maryland. The *In Silico*, Ion Channel, Myocyte, and Clinical Translation Working Groups, as well as the CIPA Steering Team, met during the two-day meetings. Each group contributes from a complementary angle toward CIPA's goal of eliminating the need for a thorough-QT (TQT) study via replacement by a new paradigm of mechanistically based *in vitro* and *in silico* assays. The organizational co-leads are ensuring collaboration across the working groups, which recently completed selection of ion channels and compounds to test the *in silico* model. Next, the Ion Channel and Myocyte Working Groups will begin protocol development by reviewing best practices and generating new data. The CIPA Steering Team provides oversight and is communicating with the International Conference on Harmonisation E14 Working Group. Presentations and other project information are available [online](#). Questions regarding the project or interest in participating may be directed to Ms. Jennifer Pierson (jpierson@hesiglobal.org).



HESI – A Founding Member of the WHO Risk Assessment Network. The WHO Risk Assessment Network released its first [newsletter](#) (Spring 2014) to announce the formation of the Network, recent related publications, and upcoming workshops. We are pleased to announce that ILSI is listed as a founding member of the Network as a nongovernmental organization in official relations with the WHO.

UPCOMING WORKSHOPS



REGISTRATION CLOSES 30 APRIL 2014 — Workshop on the Assessment of Respiratory Sensitization.

The HESI Immunotoxicology Technical Committee is organizing this event in Alexandria, Virginia, on 28–29 May 2014. This workshop will discuss the current state of the science for identification and characterization of respiratory sensitizer hazards, identify the near- and long-term information to facilitate development of validated standard methods and frameworks, and consider regulatory and practical needs regarding hazard management. For more information, visit the workshop [website](#) or contact Dr. Connie Chen (cchen@hesiglobal.org). **Registration closes on 30 April!**

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 satellite workshop of the European Environmental Mutagen Society 2014 Annual Meeting hosted by the UK Environmental Mutagen Society in Lancaster, United Kingdom, on 10–11 July 2014. It is becoming increasingly apparent that the genetic toxicology community should move away from qualitative hazard-based approaches to quantitative risk-based methodologies 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. Although the focus of this workshop is on genetic toxicology studies, the key learnings from this effort will have a much broader impact across various toxicology disciplines. For more information, visit the workshop [website](#) or contact Dr. Jennifer Young Tanir (jtanir@hesiglobal.org). **Register by 30 April 2014 to take advantage of the reduced registration fee!**



HESI is pleased to welcome Litron

Laboratories, a new corporate sponsor of HESI that is active in the Genetic Toxicology Technical Committee.

Staffing News.

Please join us in wishing a fond farewell to **Ms. Megan Harries**, HESI Scientific Program Associate, who will be starting her doctoral studies in Chemistry at the University of Colorado Boulder. She has added tremendously to HESI's scientific and communication efforts and will be greatly missed!

Publications. The HESI Protein Allergenicity Technical Committee developed four manuscripts summarizing discussions and key points from the April 2012 HESI Symposium on Sensitizing Properties of Proteins (Prague, Czech Republic). The manuscripts have been published as an online collection in *Clinical and Translational Allergy* and are now available via open access [here](#):

Poulsen et al. (2014) Sensitizing properties of proteins: executive summary.

Ladics et al. (2014) Allergic sensitization: screening methods.

McClain et al. (2014) Allergic sensitization: food- and protein-related factors.

van Ree et al. (2014) Allergic sensitization: host-immune factors.



Please also join us in welcoming **Ms. Connie Chan-Le**, our newest Scientific Program Associate. Connie moved to the DC area in 2013 from Hawaii

where she worked as an environmental educator. She has a BA in Environmental Studies-Biology from Whitman College in Washington State.

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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FROM THE EXECUTIVE DIRECTOR

What a pleasure it was to visit with many of you at this year's SOT meetings in Phoenix, Arizona, and to see so much HESI science in action. During this meeting, and leading up to it, we have had the opportunity to interview some of the founding participants in the HESI organization for a 25th anniversary video. It is such fun to hear the fond recollections of these scientific thought-leaders, and it is also inspiring to witness their unabated levels of enthusiasm and support for HESI's contributions to the science of health and safety. The video will debut at our June Annual Meeting! ([Register Now](#))

Spencer R. Rhee