



Institute for **In Vitro** Sciences

Advancing Science &  
Animal Welfare Together

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## What's New at IIVS:

### **Skin Sensitization Update – Predicting EC3 Values with *In Vitro* Assays and Computational Modeling**

The ability to ascertain the maximum limit of a compound that can be applied to the skin without inducing skin sensitization is a critical safety criterion for virtually any risk assessment. Using regression models developed by Givaudan (Kempthal, Switzerland), IIVS is able to perform a computational approach to determine predicted EC3 values (Effective Concentration required to induce a 3-fold upregulation of lymph node cell proliferation) using a combination of OECD approved assays (KeratinoSens, hCLAT, and kDPRA). This value can be used to assess risk for compounds to be included in formulations.

For more information please [contact IIVS](#) or view the following publications:

- ***Integrated Skin Sensitization Assessment Based on OECD Methods (I): Deriving a Point of Departure for Risk Assessment***
  - ***Integrated Skin Sensitization Assessment Based on OECD Methods (II): Hazard and Potency by Combining Kinetic Peptide Reactivity and the "2 out of 3" Defined Approach***
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### **IIVS Posters at the 2022 Society of Toxicology Annual Meeting**

IIVS was pleased to exhibit in person and **presented 5 posters** at SOT 2022 in March:

- ***Compatibility Determination of Alternative Solvents in the human Cell Line Activation Test (h-CLAT) for the Assessment of Skin Sensitization***
- ***Cryopreservation of Human Precision-Cut Lung Slices Provides an Immune Competent, Pulmonary Test System for "On-Demand" Use***

- **Modification in Procedure of the Reconstructed Human EpiDermis (RhE) Phototoxicity Assay**
- **Improving Quality and Reliability of In Vitro Data through the Implementation of Good In Vitro Method Practices (GIVIMP)**
- **Determination of a Maximum Tolerated UVA Exposure for the Photo-Genotoxicity Test Method Using the Reconstructed Skin Micronucleus Assay**

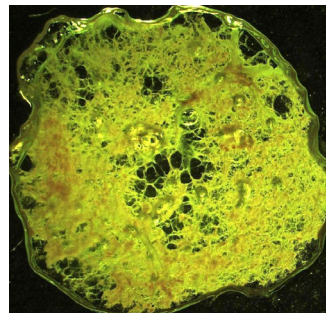
All posters are available to [view](#) or [download](#) at IIVS.org.

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## Respiratory Update

On May 18th, Dr. Holger Behrsing, Director of IIVS' Respiratory Laboratory, will attend the American Thoracic Society and present on: **Human Precision-Cut Lung Slices: A Potential Model for Detecting Respiratory Sensitization.**

Interested in our non-animal approaches to the evaluation of airway toxicity? Please [contact us](#) for more information.



IIVS now has Precision-Cut Lung Slices available for purchase. Contact [Brent Gilbert](#) for more information.

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## Upcoming IIVS Presentations

Hans Raabe, Chief Operating Officer for IIVS, will provide the following presentations:

- **May 11, 3-4:30 pm (Webinar):** Risk Assessment and In Vitro and Alternatives Methods Specialty Sections of the Society of Toxicology: **"Establishing scientific confidence in new approach methodologies: eye irritation testing and beyond"** (Lead by Dr. Amy Clippinger of the PETA International Science Consortium)
- **June 7-10:** Physicians Committee for Responsible Medicine (PCRM) Summer School: **"RhE Models for Dermal Toxicology"**, North Carolina Biotechnology Center, Research Triangle Park

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**Don't miss the Annual Meeting of the American Society for Cellular and Computational Biology!**



**ASCCT 11<sup>th</sup> Annual Meeting:**  
Shifting the Paradigm to Next-Generation  
(Quantitative) Risk Assessment

**October 19-21, 2022**  
Research Triangle Park, N.C., area

*Abstract deadline is July 15 for oral presentations and September 1 for poster*

## IIVS Recognized by Society of Toxicology

IIVS was honored to receive acknowledgment of our 25th exhibition at the SOT 61st Annual Meeting. A plaque in recognition of this milestone was presented to Erin Hill and Hans Raabe by Dr. Myrtle Davis, SOT President.



## Congratulations Dr. Costin!

IIVS congratulates our Director of Laboratory Services, Dr. Gertrude-Emilia Costin, on her appointment to the **FRAME** (Fund for the Replacement of Animals in Medical Experiments) Scientific Advisory Panel! In this capacity, she will review proposals for funding and provide feedback on research projects.

Learn more about **FRAME** and their mission of advancing non-animal methodologies.



Please contact us at [clientservices@iivs.org](mailto:clientservices@iivs.org) with any questions or for further information!

