

Mark your calendar for ESTIV2012 !



ESTIV2012, will be hosted by the [Portuguese Toxicology Association](#) (AP Tox) in Lisbon, Portugal, 16th -19th October, 2012.

As is tradition, this congress will bring together researchers and students from academia and industry, involved in the development and use of *in vitro* methods in toxicology. The scientific program includes state-of-the-art lectures, workshops, and original communications and poster sessions that will explore challenges and successes of non-animal approaches for toxicity testing.

This year the congress will have a special emphasis on the following themes: Dermal toxicity, Ocular toxicity, Dermal sensitization, Innate immune responses in toxicity, Carcinogenicity testing, Reproductive & developmental testing, Systemic toxicity, and Computational toxicity & toxicokinetics. As with previous ESTIV congresses, a special student session will also be organized, where young researchers will be invited to briefly present their work; there will be an award for the best presentation.

A pre-congress workshop on "The Economics of Alternatives" will be co-organized by ESTIV, CAAT & IVTIP. This workshop will focus on the benefits versus costs balance related to *in vitro* testing, as well as on strategies to make the way forward regarding the application of *in vitro* tests and testing strategies.

In addition to the cutting-edge topics that will be covered in ESTIV2012, for the first time, a practical workshop will be organized on the 20th October. The purpose of this workshop is to gain hands-on experience with computerized *in vitro* – *in vivo* extrapolation strategies.

In addition to the scientific program, you can count on the warm hospitality, excellent climate, rich culture and great food that Lisbon has to offer. The congress venue is located in the new part of the city, close to the airport and the Expo waterfront.

The ESTIV2012 organization committee is looking forward to seeing you in Lisbon.

Professor Dr. med. Horst Spielmann is the recipient of the Björn Ekwall Memorial Award 2012



Professor Dr. med. Horst Spielmann is the recipient of the Björn Ekwall Memorial Award 2012. He was selected by the board of the Björn Ekwall Memorial Foundation (BEMF) together with the board of the Scandinavian Society for Cell Toxicology (SSCT). The Björn Ekwall Memorial Award will be handed over to Prof. Spielmann during the ESTIV 2012 congress 16 – 19 October, Lisbon, Portugal. The title of the Björn Ekwall Memorial Lecture which will be given by Prof. Spielmann is: *Today Björn Ekwall would endorse the concept "Toxicology in the 21st Century"*.

The BEMF wants to honour the outstanding scientific work of Prof. Spielmann. He has significantly promoted the research in the field of *in vitro* toxicology by developing non-animal tests aiming to replace and to reduce animal experiments in regulatory toxicology. The *in vitro* models developed by Prof. Spielmann are used world-wide, e.g. for the estimation of phototoxicity, to test skin irritation, and for the detection of embryotoxicity *in vitro*. The studies of Prof. Spielmann have led to validated tests, and also acceptance into the regulatory guidelines. Horst Spielmann (born April 3, 1942, in Lublin, Poland) defended his PhD thesis in 1969 and became Dr. med. at the Department of Pathology, Medical School of the Freie Universität Berlin where he continued as a postdoctoral student and assistant professor at the Institute for Toxicology 1969-1980. From 1981 he has been the Head of the Department for Pharmacology and Toxicology at the Battelle Institute, Frankfurt on Main, and 1983-1989 director and professor at the Federal Health Institute Berlin.

draft document was generated and discussed during the workshop. The public feedback was very positive. Work on the subject is ongoing, and the consensus report with all contributors will be published soon.

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Open Forum, on 21st Century Toxicology and Evidence-based Toxicology
SOT, 11-15 March 2012 San Francisco

CAAT, the Evidence-based Toxicology Collaboration (EBTC), and the Human Toxicology Project Consortium hosted an open forum on 21st century toxicology and evidence-based toxicology as a satellite meeting to the Society of Toxicology annual conference March 11 in San Francisco. The forum offered participants an opportunity to provide informal updates on work they are doing to advance the new toxicology.

CAAT and the HTP Consortium hosted similar meetings on 21st century toxicology last year at both the SOT conference and the World Congress on Alternatives and Animal Use in the Life Sciences. This year we added evidence-based toxicology to the mix, given the work of the newly formed Evidence-based Toxicology Collaboration (EBTC) (see www.ebtox.com), for which CAAT serves as secretariat. The HTP Consortium comprises several companies and organizations, including CAAT, seeking to accelerate implementation of the NRC's 2007 report on "Toxicity Testing in the 21st Century."

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Scientific roadmap for the future of animal-free systemic toxicity testing
March 20-21, 2012 Brussels, Belgium

The European REACH regulations, together with testing bans for cosmetic ingredients in Europe and a possible US TSCA reauthorization, point to the desire for a transition to an animal-free strategy for systemic toxicity testing. Other areas and novel products could similarly benefit from humane predictive approaches. A recent stocktaking (Adler et al. 2011, Toxicol 85, 367-485) and its expert review (Hartung et al. 2011, ALTEX 28, 183-209) identified gaps in the science available.

An expert workshop, presented and discussed in a multi-stakeholder forum, was held to promote the development of a roadmap to close these gaps (Basketter et al 2012, ALTEX 29:3-89). The event was hosted by CAAT and CAAT-Europe, ecopa, EUSAAT, Doerenkamp-Zbinden-Foundation, ESTIV, IVITIP, ESTIV, IIVS, Humane Society International, and ToxCast (US EPA), together with Cefic and Cosmetics Europe. This event also benefited from the advisory comments of Eurogroup for Animals and ecopa, as well as from the contributions of the SEURAT-1 consortium and the European Chemicals Agency (ECHA).

The convention included 140 registered participants. The public expert responses were constructive, and the discussions on the recommendations of the presented report were lively. A summary of this event has been published in *ALTEX*.

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CAAT EUROPEAN POLICY PROGRAM

The CAAT European Policy Program will be supervised by Dr. Paul Locke, who has directed CAAT's US policy program since 2004. The European Policy Program will help cement CAAT's role as a transatlantic bridge for the 3Rs and alternatives and as a global scientific voice for bringing the 3Rs and humane science into law, regulations, and guidance. François Busquet will be the CAAT representative in Brussels. Dr. Busquet, an expert in the field of zebrafish embryo and its applicability to toxicity and safety testing and research, worked for ECVAM, European Commission until January 2012. CAAT has been active in transatlantic policy issues for some time. In June 2010, it sponsored a symposium in Washington, DC entitled "International harmonization in toxicity testing: An EU perspective on the way forward." CAAT is also an active member of the American Consortium on European Studies (ACES) and an EU Centre for Excellence supported by DG RELEX of the European Commission, and it organizes many information days through CAAT-Europe in Konstanz. One of the goals of the European Policy Program is to serve as a voice of science to political decision makers in the EU and to act as a conduit so that cutting edge humane science is available to make policy on both sides of the Atlantic.

Recent publications of ESTIV members

AXLR8 Public Service Review:

<http://axlr8.eu/assets/axlr8-update-2012.pdf>

Basketter DA, Clewell H, Kimber I, Rossi A, Blaauboer B, Burrier R, Daneshian M, Eskes C, Goldberg A, Hasiwa N, Hoffmann S, Jaworska J, Krudsen TB, Landsiedel R, Leist M, Locke P, Maxwell G, McKim J, McVey EA, Ouédraogo G, Patlewicz G, Pelkonen O, Roggen E, Rovida C, Ruhdel I, Schwarz M, Schepky A, Schoeters G, Skinner N, Trentz K, Turner M, Vanparys P, Yager J, Zurlo J and Hartung T (2012). A Roadmap for the development of alternative (non-animal) methods for systemic toxicity testing. *ALTEX* 29, 3-91.

Basketter, D., Jirova, D., Kandárová, H. (2012). Review of skin irritation/corrosion hazards on the basis of human data: A regulatory perspective. *Interdisciplinary Toxicology* 5 (2), in press.

Burkard A, Dähn C, Heinz S, Zutavern A, Sonntag-Buck V, Maltman D, Przyborski S, Hewitt NJ, Braspenning J.(2012) Generation of proliferating human hepatocytes using upcyte® technology: characterisation and applications in induction and cytotoxicity assays. *Xenobiotica*, early online: 1-18.

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De Jong E, Barenys M, Hermsen S, Verhoef A, Ossendorp B, Bessems J, Piersma A (2011) Comparison of the mouse Embryonic Stem cell Test, the rat Whole Embryo Culture and the Zebrafish Embryotoxicity Test as alternative methods for developmental toxicity testing of six1,2,4-triazoles. *Toxicol Appl Pharmacol* 253 103–111

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Eskes C, Detappe V, Koeter H, Kreysa J, Liebsch M, Zuang V, Amcoff P, Barroso J, Cotovio J, Guest R, Hermann M, Hoffmann S, Masson P, Alepee N, Arce LA, Bruschweiler B, Catone T, Cihak R, Clouzeau J, D'Abrosca F, Delveaux C, Derouette JP, Engelking O, Facchini D, Frohlicher M, Hofmann M, Hopf N, Molinari J, Oberli A, Ott M, Peter R, Sa-Rocha VM, Schenk D, Tomicic C, Vanparys P, Verdon B, Wallenhorst T, Winkler GC and Depallens O (2012). Regulatory Assessment of *In Vitro* Skin Corrosion & Irritation Data within the European Framework: Workshop Recommendations. *Regulatory Toxicology & Pharmacology* 62, 393-403.

Ferruzza S, Rossi C, Scarino ML, Sambuy Y, (2011) A protocol for in situ enzyme assays to assess the differentiation of human intestinal Caco-2 cells. *Toxicol In Vitro*. doi:10.1016/j.tiv.2011.11.007

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Guantario B, Conigliaro A, Amicone L, Sambuy Y, Bellovino D (2012) The new murine hepatic 3A cell line responds to stress stimuli by activating an efficient Unfolded Protein Response (UPR). *Toxicol In Vitro* 26, 7-15.

Hartung, T., Blaauboer B, Bosgra S, Carney E, Coenen J, Conolly R, Corsini E, Green S, Faustman E, Gaspari A, Hayashi A, Hayes W, Hengstler J, Knudsen L, Knudsen T, McKim J, Pfaller W, and Roggen E (2011). An Expert Consortium Review of the EC-commissioned Report "Alternative (Non-Animal) Methods for Cosmetics Testing: Current Status and Future Prospects – 2010." *ALTEX* (2011) 28 (3), 183-209.

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ESTIV Affiliated Societies

CellTox, Italy
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Monique Adolphem, Michael Balls, Diane Benford, Bas Blaauboer, Bob Combes, Jan Van der Valk, Flavia Zucco,

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