

*The 28<sup>th</sup> Workshop of SSCT and the FINCOPA Seminar*

*“Towards toxicity assessment without animals”*

*Call for Papers*

For Programme updates see [www.ficam.fi](http://www.ficam.fi)

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**Time: Wednesday 21<sup>st</sup> – Friday 23<sup>rd</sup> September 2011**  
**Place: Tampere, Scandic Rosendahl, Tampere, Finland**

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**Welcome to Tampere to the 28<sup>th</sup> Workshop of SSCT and Fincopa Seminar!**

Dear Colleagues,

The 28th workshop of Scandinavian Society for Cell Toxicology (SSCT) will be organized as a joint meeting with the Finnish Consensus Platform for Alternatives (Fincopa) 21-23 September 2011 in Tampere. The theme is "Towards toxicity assessment without animals".

We live in a chemical world. However, the safety of the chemicals to man and the risks to the environment have been studied for only a fraction of the chemical substances. The pressure to perform toxicity assessment without animals comes from various stakeholders: regulatory guidelines such as Cosmetic directive prohibit the use of animals in assessing the safety of cosmetics or cosmetic ingredients, and REACH calls for non-animal tests to be performed when ever possible, European Commission's goal is to decrease the use of laboratory animals, industry wants cheaper and more reliable test methods than animal experiments. Today, the toxicity assessment is mostly performed with animals, but more and more robust alternative (*in vitro*) tests are being developed. The developing science, use of human cells and novel tissue engineering as well as instrumentation solutions have made possible the change from *in vivo* to *in vitro* testing .

The Fincopa seminar, free and open to all participants, will concentrate on the status of new *in vitro* methods covered by EU-FP-7-project to replace/supplement animal experiments.

The 28<sup>th</sup> SSCT workshop will start with the new updated directive of 2010/63/EU (22.09.2010) and its impact on the toxicity testing strategy, followed by presentations on *in vitro* methods from scientific and technical perspectives. The other topics cover:

- A new paradigm: Away from histopathology-based toxicity assessment
- Optimal *in vitro* cellular model
- Significance of barriers in toxicity risk assessment

Advanced technical solutions are of utmost importance for successful cell culture research and test development. The area is developing very fast. To bring scientists up to date with new technical solutions a commercial exhibition will be organized in connection with the workshop.

We are looking forward to have a meeting with up-to-date scientific knowledge. We wish you warmly welcome to Tampere and call you to send abstracts to be presented as oral presentations or as posters.

On behalf of the Organizers

Tuula Heinonen  
President, SSCT

## Programme

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**Wednesday, September 21, 2011**

<b>08:00 –</b>	<b>REGISTRATION</b>
<b>09:00 – 09:15</b>	<b>Opening</b> <i>Tuula Heinonen, FICAM, University of Tampere, FI</i>
<b>09:15 – 12:00</b>	<b>Session 1: Status of EU-projects and new developments to replace animal experiments</b> <i>Chair: Horst Spielmann, Freie Universität Berlin, DE</i>
<b>09:15 – 10:00</b>	<b>Status of EU-projects and new developments in reproductive toxicity assessment</b> <i>Horst Spielmann, Freie Universität Berlin, DE</i>

- 10:00 – 10:30**                    **Carcinogenicity and mutagenicity**  
*Tuula Heinonen, FICAM, University of Tampere, FI*
- 10:30 – 10:45**                    **COFFEE BREAK**
- 10:45 – 11:15**                    **Acute toxicity**  
*Cecilia Clemedson, AdvocoTox consulting AB, SE*
- 11:15 – 11:45**                    **ECVAM prevalidation study on skin sensitisation alternatives: progress update**  
*David Basketter, DABMEB Consultancy Ltd, Sharnbrook, UK*
- 11:45 – 12:15**                    **Toxicokinetics**  
*Olavi Pelkonen, University of Oulu, FI*
- 12:15 – 13:00**                    **LUNCH (SSCT BOARD MEETING)**
- 13:00 – 18:00**                    **Session 2: Impact of the Council adopted Updated Directive 86/609/EEC 2010/63/EU**  
*Chair: Joachim Kreysa, ECVAM, JRC, IT and Tuula Heinonen, FICAM, University of Tampere, FI*
- 13:00 – 13:45                    **EU-perspective**  
*Susanna Louhimies, EU - DG Environment, BE*
- 13:45 – 14:30                    **ECVAM-perspective**  
*Joachim Kreysa, ECVAM, JRC, IT*
- 14:30 – 15:15                    **Implementation in Finland**  
*Kai Pelkonen, Kai Pelkonen Consulting Ltd, FI*
- 15:15 – 15:45**                    **COFFEE BREAK AND POSTER VIEWING**
- 15:45 – 16:15                    **Use of non-animal models in regulatory science: challenges & opportunities**  
*Derek Knight, ECHA, FI*
- 16:15 – 16:45                    **Neuronal cells differentiated from human embryonic cells and iPS cells as building blocks for functional models**  
*Magda Forsberg, Karolinska Institutet, SE*
- 16:45 – 17:15                    **Nanoparticles as ecotoxicological threat**  
*Anne Kahru, National Institute of Chemical Physics and Biophysics, EE*
- 17:15 – 17:35                    **Free presentation**
- 17:35 – 17:55                    **Free presentation**
- 18:00 – 20:00**                    **GET TOGETHER**

- 9:00 – 12:30**            **Session 3: A new paradigm: Away from histopathology based toxicity assessment**  
*Chair: Thomas Hartung, Johns Hopkins University – CAAT, US*
- 9:00 – 09:45            **Toxicity testing in the 21st century**  
*Thomas Hartung, Johns Hopkins University – CAAT, US*
- 09:45 - 10:30         **Critical toxicity pathways – How to identify?**  
*Robert Kavlock, EPA, US*
- 10:30 – 11:00**                            **COFFEE BREAK AND POSTER VIEWING**
- 11:00 – 11:45         **Critical biomarkers for estimation of acute neurotoxicity by using in vitro models**  
*Anna Forsby, Stockholm University, SE*
- 11:45 – 12:30         **How to add metabolism into the *in vitro* cellular system**  
*Olavi Pelkonen, University of Oulu, FI*
- 12:30 – 13:30**                            **LUNCH**
- 13:30 – 17:30**            **Session 4: Optimal *in vitro* cellular model**  
*Chair: Timo Ylikomi, FICAM, University of Tampere , FI and Hanna Tähti, FICAM, University of Tampere, FI*
- 13:30 – 14:00         **In vitro - in vivo extrapolation of toxic potencies: basic requirements**  
*Hasso Seibert, University Medical School, Schleswig-Holstein, DE*
- 14:00 - 14:30         **Optimal matrices**  
*Timo Ylikomi, FICAM, University of Tampere, FI*
- 14:30 – 15:00         **A breakthrough in biomaterial development for 2D-3D cellular models**  
*Marjo Yliperttula, University of Helsinki, FI*
- 15:00 – 15:30**                            **COFFEE BREAK AND POSTER VIEWING**
- 15:30 – 15:45         **Introduction to the Björn Ekwall Memorial Award Lecture**  
*Hanna Tähti, FICAM, University of Tampere, FI*
- 15:45 – 16:30         **The Björn Ekwall Memorial Award Lecture**  
**Placental transporters: models and mechanisms in toxicology**  
*Päivi Myllynen, University of Oulu, FI*
- 16:30 – 18:00**            **SSCT ANNUAL GENERAL MEETING**
- 18:00 – 19:00**            **MEETING OF THE NEW SSCT BOARD**
- 19:00**                            **BANQUET**

<b>9:00 – 10:20</b>	<b>Session 5: Significance of biological barriers in toxicity risk assessment</b> <i>Chair: Kirsi Vähäkangas, University of Eastern Finland, FI, and Bas Blaauboer, University of Utrecht, NL</i>
9:00 – 09:45	<b>The significance of specific barriers in biokinetics: the consequences for toxicological risk assessment of compounds</b> <i>Bas Blaauboer, University of Utrecht, NL</i>
9:45 – 10:15	<b>Use of in vitro models of the BBB for the determination of acute and repeated dose toxicity</b> <i>Romeo Cecchelli, Artois University, Lille, FR</i>
10:15 – 10:45	<b>Placental barrier in toxicology</b> <i>Kirsi Vähäkangas, University of Eastern Finland, FI</i>
<b>10:45 – 11:15</b>	<b>COFFEE BREAK</b>
11:15 – 11:35	<b>Free presentation</b>
11:35 – 11:55	<b>Free presentation</b>
11:55 – 12:15	<b>Free presentation</b>
12:15 – 12:35	<b>Free presentation</b>
12:35 – 12:55	<b>Free presentation</b>
<b>12:55 – 13:00</b>	<b>CLOSING OF THE WORKSHOP</b>
	<b>DEPARTURE</b>

### **International Scientific Advisory Committee**

Cecilia Clemedson  
Anne Forsby  
Tuula Heinonen  
Ada Kolman  
Kimmo Louekari  
Aimo Oikari  
Olavi Pelkonen  
Hasso Seibert  
Tore Syversen  
Hanna Tähti  
Kirsi Vähäkangas

### **Local Organizing Committee**

Heidi Diallo, Secretary General  
Tuula Heinonen, Chairperson  
Marika Mannerström  
Marika Päällysaho  
Pauliina Salonen  
Kimmo Savinainen  
Riina Sarkanen  
Tarja Toimela  
Hanna Tähti  
Hanna Vuorenpää

## Workshop Secretariat

Ms. Heidi Diallo  
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## General information

**Registration:** Deadline for Registration has been extended to August 1, 2011  
Late and on-site registrations possible, but dinner requests not guaranteed.  
For registration, please fill the registration form and send it to [heidi.diallo@uta.fi](mailto:heidi.diallo@uta.fi), Fax: +358 3 3551 6170.

**Registration fee:** The registration fee covers free admission to both Fincopa Seminar and SSCT workshop, abstract book, refreshments during coffee breaks, get-together party and banquet.

**Fee for SSCT- and Fincopa members, before June 15, 2011: 290 Eur**

**Fee for non-SSCT-and non-Fincopa members, before June 15, 2011: 330 Eur**

**Fee for SSCT-and Fincopa-members, after June 15, 2011: 390 Eur**

**Fee for non-SSCT and non-Fincopa-members, after June 15, 2011: 430 Eur**

**Fee for students: 180 Eur**

**Fee for one day: 140 Eur**

The registration fee should be transferred to the bank account as follows:

**Name of bank:** Sampo Pankki Oyj Tampere, Hämeenkatu 9, 33100  
TAMPERE

**Account holder:** SSCT WORKSHOP 2011

**Account number:** 833007-10348768

**IBAN number:** FI9783300710348768

**BIC/SWIFT code:** DABAFIHH

**Abstract submission:** Deadline for abstract submission has been extended to August 1, 2011  
Abstract size: one A4 page including title, authors with affiliations, body text with font size 12  
Please send the abstract to [heidi.diallo@uta.fi](mailto:heidi.diallo@uta.fi)

**Posters:** The size of the poster stand is height 125 cm and width 95 cm.

**Proceedings:** The invited speakers and participants having free oral or poster presentations are invited to submit a paper according to the instructions for authors for the SSCT special issues in *Toxicology in Vitro*.

All papers will need to be submitted to the EES system of the journal, and labeled as "SSCT 2011 special issue" in the "article type name" field.

All instructions to authors that are listed in the EES system also apply, with the following additions:

1. The papers should clearly be related to the presentations made during the SSCT 2011 meeting in Tampere, according to the judgment of the guest editors.
2. There are restrictions to the length of the articles:
  - for papers submitted by invited speakers: 20 pages double-spaced print, and including all materials, e.g. reference list, figures and tables
  - for papers submitted by other oral presenters and poster presenters: 15 pages double-spaced print, and including all materials, e.g. reference list, figures and tables.

The guest editors (T. Heinonen and H. Tähti) together with the European Editor (B. Blaauboer) will act as the editors for this special issue.

**Workshop venue and transportation:**

The venue of the Fincopa-28<sup>th</sup> SSCT-workshop will be a beautiful conference centre of Scandic Rosendahl ([www.scandichotels.com/rosendahl](http://www.scandichotels.com/rosendahl)) located by the magnificent scenery of Lake Pyhäjärvi and the Pynnikki ridge. Even only 3 kilometers from Tampere city centre Scandic Rosendahl provides the peace and quiet of nature for the visitors. The participants are asked to book the accommodation themselves either in the Scandic Rosendahl or in some other hotels (see the Hotel info below).

Address for Hotel Scandic Rosendahl is Pyynikintie 13, 33230 Tampere, tel: +358 3 2441 111, Fax: +358 3 2441 2211, [rosendahl@scandichotels.com](mailto:rosendahl@scandichotels.com)

You can reach Scandic Rosendahl by bus number 21 from the city center with the costs of 2.5 Eur or by taxi with approximately 15 Eur.

Tampere is easy to reach by plane or by train from various cities in Finland including Helsinki (1-2 trains per hour taking 1.5 hours). There are also straight international flight connections e.g. between Stockholm and Tampere.

**Hotel Info:** The organizers have reserved rooms in Scandic Rosendahl with lower room rate than normal and with the code `SSCT 2011`. This reservation is valid until 20 July 2011. The participants are asked to make their own hotel reservation by themselves!

Address for Hotel Scandic Rosendahl is Pyynikintie 13, 33230 Tampere, tel: +358 3 2441 111, Fax: +358 3 2441 2211, [rosendahl@scandichotels.com](mailto:rosendahl@scandichotels.com).

**If the** Participants prefer to make their hotel reservation in other hotels in Tampere, please contact hotels in Tampere directly, e.g. [www.hotels.com/tampere](http://www.hotels.com/tampere) or <http://www.booking.com>. There is a good local bus connection between the Scandic Rosendahl and other parts of Tampere city.

**Social Programme:** **Wednesday 21<sup>st</sup> September at 6 pm.** Get together party (included in the registration fee) will be organized in workshop venue (Scandic Rosendahl).

**Thursday 22<sup>nd</sup> September at 7 p.m.** Symposium Dinner (included in the registration fee) takes place at Scandic Rosendahl.

**Commercial Options:** 1) Exhibition fee of 450 euros for 5m<sup>2</sup> and 900 euros for 10m<sup>2</sup>. In addition 100 euros for advertisement in programme/abstract book. Distribution of brochures included.

2) Advertisement in the programme/abstract book 350 Eur for ½ page  
Advertisement in the programme/abstract book whole page 500 euros for whole page. Distribution of brochures included.

3) Name on the Sponsor list in the programme/abstract book, 250 Eur.  
Distribution of brochures included.