21st International Congress

ESTIV

Programme Book

Barcelona 2022

21 - 25 November

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THE LUSH PRIZE
SUPPORTING ANIMAL-FREE TESTING

www.lushprize.org
Dear delegates,

The long-awaited 21st International Congress of the European Society of Toxicology In Vitro (ESTIV 2022) is happening in Barcelona-Sitges, Spain, from 21st to 25th November 2022. The 21st ESTIV congress had to be postponed from 2020 to 2022 due to public health concerns and limitations in international travels. The ESTIV Board also took into consideration the postponement of the World Congress on Alternatives from 2020 to 2021 when deciding to move the ESTIV congress to 2022.

The Organising and the Scientific Committees of ESTIV 2022 took very seriously all the organisational and programme commitments made before the postponement of the congress. To make the congress even more attractive and to reflect on the developing science, the Scientific Committee decided to implement for the first time parallel sessions, allowing for the inclusion of several emerging topics, such as the role of in vitro and in silico approaches in COVID-19 research, Organ-on-a-chip & Microphysiology systems and Developmental Neurotoxicity (DNT) research.

The ESTIV Board and the Scientific Committee are grateful to all Session chairs and abstract reviewers for their excellent evaluations of the submitted abstracts and for ensuring a very high quality and high standards of the scientific programme.

Last, but certainly not least, the ESTIV Board cordially thanks all authors, who submitted their scientific works to the ESTIV 2022 Congress.

The Congress Committees of the ESTIV 2022 warmly welcome you at the 21st ESTIV Congress in Barcelona-Sitges and look forward to see so many colleagues working in the area of in vitro and in silico toxicology finally reuniting!

Helena Kandarova and João Barroso

Acknowledgements

The ESTIV 2022 congress would not have been possible without the logistic assistance of the conference organiser Klinkhamer Group | conferences & events as well as the financial support of the ESTIV supporters and sponsors.
COMMITTEES

Congress chairs

- Helena Kandárová
  Centre of Experimental Medicine, Slovak Academy of Sciences, Bratislava, Slovakia
- João Barroso
  European Commission, Joint Research Centre, Ispra-Italy

Organising Committee

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ESTIV 2022
Sitges (Barcelona), Spain, 21 – 25 November 2022
Program Book

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- Jochem Louisse
  Wageningen Food Safety Research, Wageningen -The Netherlands
GENERAL INFORMATION
A-Z

Awards
ESTIV is proud to present as many as 13 awards during ESTIV 2022:

- ESTIV Best poster award
- ESTIV Best oral presentation award
- ATLA/Frame Best poster award
- ECOPA Award – Best young scientist contribution
- EPAA award
- Doerenkamp-Zbinden Foundation best poster award
- Toxicology in vitro/ELSEVIER best poster award
- AIVT best paper award
- EUROTOX best poster award
- JSAAE best poster award
- JSAAE best oral presentation award
- ESACT best poster award
- UB Award

The awards will be presented during the closing ceremony on Thursday, November 24, 2022 from 12:40-13:30 in the Auditorium.

Badges
Congress badges need to be picked-up on-site at the registration desk upon arrival. All delegates and accompanying persons must wear the congress badge visibly at any time in the venue. Entrance to session rooms as well as poster and exhibition area are only granted when wearing the congress badge.

Certificate of Attendance
One week after the congress ends, you can download your Certificate of Attendance through your congress account that you also registered with.

Climate and Clothing
You can expect very pleasant temperatures during the day. The average maximum daytime temperature is around 18.0°C (64.4°F). The average minimum temperature (usually recorded during the night) in Sitges in November is 12.0°C (53.6°F). So what to wear in November? Bring a rain jacket just to be sure, as it will rain for a few days during this period. Plan your clothing in layers. Some days or parts of the day will be nice and warm and sometimes it may be a bit chilly. With a water temperature of about 16.0°C, there is no need to bring swimwear.

Coffee Breaks and Lunches
Coffee, tea and refreshments will be served during all morning and afternoon breaks. Lunches and refreshments will be provided during all lunch breaks. Food and refreshments will be provided to Full Congress or Exhibitor Badge holders only. There will be no lunch and afternoon break on Thursday, November 24. Participants should arrange to purchase their own lunch after the congress.

Congress Secretariat
Klinkhamer Group | conferences & events
Duboisdomein 5D01
6229 GT Maastricht
The Netherlands
Email: helpdesk@klinkhamergroup.com

Copy Shops
Small print orders (A4, max 10 pages) can be done at the congress registration desk. Should you need a copy shop please refer to the following copy shop:

Altraera Copisteria Sitges
Av. Camí dels Capellans, 20
08870 Sitges
Barcelona, Spain

Credit Cards
All major hotels, restaurants, bars and stores accept all major credit cards, but you may be asked for a photo ID to confirm your identity. Although most restaurants and stores accept credit cards, there are smaller bars, eateries and independent art galleries where you are expected to pay in cash. So it is wise to have some cash on hand.

Currency & Banks
The currency in Sitges, Spain is the euro. You will have no trouble finding an ATM in Sitges, but if you do need to ask for directions, donde esta un cajero automatico? should give you the answer you want. Your bank determines the exchange rate, but it is almost always much more competitive than that of a bureau de change. A very important thing to remember is
to press "no" at any bank that offers you money in your own currency. If you press "yes," the Spanish bank will convert your money at an unfavorable rate.

**Electricity**

The standard in Spain is 220volts, 50Hz. Participants from North America require a transformer and British participants need an adapter.

**Evaluation Form**

One week after the congress ends, you are invited to fill out an evaluation form through your congress account that you also registered with.

**Exhibition Area**

The exhibition area is positioned in the room called: Tramuntana, and hosts the exhibitors, coffee and lunch breaks.

**Exhibition Opening Hours**

- **Monday 21 November:** 13:00 – 20:30 hours
- **Tuesday 22 November:** 10:30 – 17:00 hours
- **Wednesday 23 November:** 10:30 – 16:30 hours
- **Thursday 24 November:** 10:30 – 13:00 hours

**Language**

Official language in Spain is Spanish. The official language of the congress is English. Kindly note that no translation services are provided during the congress.

**Local Time**

The standard time zone in Sitges, Spain is GMT(+1).

**Parking**

Private parking is available at the hotel. Ask the front desk for more information.

**Poster Viewings and Area**

All posters will be displayed in the Hall Auditorium and Hall Tramuntana (foyers next to the Auditorium and Exhibition Area) of the congress venue. Please see the poster list in this programme book (page 49) to find the board number on which to hang your poster.

Pins to hang your poster will be provided at the congress location. Poster presenters are requested to stand next to their posters for discussion during the poster sessions which will take place during breaks and lunches on all congress days. All posters should be set up before the congress starts on the first day. Posters should be dismantled before the end of the congress. The organization will remove all posters after the congress. If the poster is not collected it will be discarded after the congress.

**Public Transport**

Sitges is a small town and so its buses are the same. You will see the little blue vans, that seat approximately twenty people, driving around the outskirts of town. The buses start their route outside of Sitges train station. It is worth remembering that they stop running in the evenings, so after this point you will need to rely on taxis.


End of service: 20:45

**Registration Desk / Opening Hours**

For receiving your congress materials or for registering on-site, please contact the organisers at the registration desk. It will operate daily as follows:

- **Monday 21 November:** 08:00 – 19:00 hours
- **Tuesday 22 November:** 07:00 – 19:00 hours
- **Wednesday 23 November:** 07:00 – 19:00 hours
- **Thursday 24 November:** 07:00 – 13:00 hours

**Safety**

Sitges is lucky in that it does not share Barcelona's association with petty crime and pickpockets. Nonetheless, as whenever you are abroad, be a little vigilant as there is always a minority element who may see you, or your belongings, as rich pickings. Don't leave bags unattended, or valuables out in plain view.

**Smoking Policy**

ESTIV 2022 is a non-smoking congress. It is prohibited to smoke anywhere inside the venue. In general, it is prohibited to smoke in
public buildings (including restaurants and bars) in Sitges.

**Special Needs**

Participants with special needs are invited to advise the congress organizers concerning any special requirements. The congress venue is equipped with all necessary facilities for persons with special needs.

**Taxi**

Sitges is a small town, but you may find that you need to use a taxi whilst you are there. There are two main taxi firms in Sitges - one based outside the train station and one outside the main tourist information office. You do not need to go to these points to catch a taxi - you can call the numbers provided below and ask them to come to pick you up. Alternatively you can hail a taxi in the street.

This page: [https://www.sitges-tourist-guide.com/en/transport/taxis-sitges.html](https://www.sitges-tourist-guide.com/en/transport/taxis-sitges.html) provides more information and contact telephone numbers for the two taxi firms in Sitges. Or call directly (see next column)

**Telephone**

The dial in code for Spain is +34.

**Venue**

Meliá Sitges Hotel  
Address: Carrer de Joan Salvat Papasseit, 38, 08870 Sitges, Barcelona, Spanje  
Telephone: +34 938 11 08 11  
[www.melia.com/sitges](http://www.melia.com/sitges)

**WiFi**

Free Basic WiFi is available in the conference venue. It is intended for reading e-mail and basic Internet use. It is not intended for heavy uploading and downloading.

**VENUE MAP**

---

Hall Auditorium:  
Auditorium:  
Tramuntana:  
Garbi 1+2:  
Llevant:  
Registration Desk + Posters  
Plenary Sessions and Parallel Room  
Exhibition Area, Breaks and Lunches  
Parallel Room  
Side-Meetings
SOCIAL PROGRAMME

Welcome Reception and Poster Session (including Finger Food)

DATE:       Monday, November 21st, 2022  
TIME:       19:00-20:30  
VENUE:      Melià Sitges – Tramuntana, Hall Tramuntana and Hall Auditorium

On the first evening of the congress, all participants are kindly invited to the Welcome Reception that will take place after the scientific program on the first day of the congress. The Welcome Reception will take place in the exhibition room and the poster session will take place in the room next to the exhibition and auditorium. This is the perfect opportunity to connect with colleagues and business partners and get a first look at the posters.

Attendance is free of charge for all fully registered congress participants and exhibitors.

The Welcome Reception and Poster Session is supported by The American Society for Cellular and Computational Toxicology (ASCCT).

Wine Reception in the Poster Area

DATE:       Tuesday, November 22nd, 2022  
TIME:       19:30-20:30  
VENUE:      Melià Sitges – Tramuntana, Hall Tramuntana and Hall Auditorium

Join us during the 2nd night of the congress for the Wine Reception in the Poster Area. This is the perfect time to view the many accepted posters during ESTIV 2022 and interact with the presenters while enjoying a wine from the Catalanian region in a relaxed atmosphere.

Attendance is free of charge for all fully registered congress participants and exhibitors.

The Wine Reception in the Poster Area is supported by the University of Barcelona.

Congress Dinner & Social Evening*

DATE:       Wednesday, November 23rd, 2022  
TIME:       19:30-22:30 / 01:00  
VENUE:      Finca Mas Solers

Finca Mas Solers is a Catalan mansion in late nineteenth century Renaissance style that, during its golden age, housed the former Gran Casino Barcelona. Now you can relive all that glamour by joining our Congress Gala Dinner in the charming gardens and spaces of the beautiful building!

Transport
Buses will leave in front of the Melià Sitges hotel and congress venue at 19:00 sharp.

Clothing
The dress code is Business Casual. Since part of the dinner may be outdoors, it is wise to dress accordingly. It may cool off in the evening.

Dinner Party (from 22:30-01:00)
Delegates are also invited to the party after dinner where drinks are at their own expense. Transportation back to the venue is provided. Buses will not leave back until 1 o’clock. Delegates who do not want to stay that long will have to join the bus back at 22:30 or order a taxi.

*Entrance to the congress dinner will only be permitted for delegates with a valid ticket. Tickets can be booked upfront or on-site at the registration desk (upon availability).
## WORKSHOPS AND SIDE-MEETINGS

### Monday, November 21st, 2022

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<th>Event Description</th>
<th>Chairs</th>
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<tbody>
<tr>
<td>Garbi 1+2</td>
<td>09:00 – 13:00</td>
<td>Pre-conference workshop – Bridging across methods in the biosciences (BeAMs): the opportunity of COVID-19 (organised with JRC)</td>
<td>Dr Annamaria Carusi &amp; Dr Sofia Batista Leit</td>
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### Tuesday, November 22nd, 2022

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<th>Event Description</th>
<th>Chairs</th>
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<tr>
<td>Garbi 1+2</td>
<td>13:00 – 14:00</td>
<td>ILSI/ESTIV- sponsored lunch session: Application of non-animal methods and concepts in food risk assessment</td>
<td>Dr Isabelle Guelinckx (ILSI Europe, Belgium) &amp; Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia)</td>
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### Wednesday, November 23rd, 2022

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<th>Chairs</th>
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<tr>
<td>Garbi 1+2</td>
<td>13:00 – 14:00</td>
<td>JSAAE – sponsored session – Asian progress in 3Rs: 3rd Asian congress and KSAAE updates</td>
<td>Dr Yasunari Kanda (National Institute of Health Sciences, Japan) &amp; Dr Kwang-Mahn Kim (Yonsei University, South Korea)</td>
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### Thursday, November 24rd, 2022

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<th>Room</th>
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<th>Event Description</th>
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<tr>
<td>Llevant 4+5</td>
<td>14:00 – 19:00</td>
<td>Post-conference workshop with EPISKIN Academy</td>
<td><a href="https://www.estiv.org/congress2022/post-conference-workshop/">https://www.estiv.org/congress2022/post-conference-workshop/</a></td>
</tr>
<tr>
<td>Garbi 1+2</td>
<td>14:00 – 19:00</td>
<td>ASPIS open symposium</td>
<td><a href="https://aspis-cluster.eu/calendar/event-details/">https://aspis-cluster.eu/calendar/event-details/</a></td>
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### Friday, November 25th, 2022

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<tbody>
<tr>
<td>Llevant 4+5</td>
<td>08:30-16:00</td>
<td>Post-conference workshop with EPISKIN Academy</td>
<td><a href="https://www.estiv.org/congress2022/post-conference-workshop/">https://www.estiv.org/congress2022/post-conference-workshop/</a></td>
</tr>
<tr>
<td>Garbi 1+2</td>
<td>08:30-16:00</td>
<td>ASPIS open symposium</td>
<td><a href="https://aspis-cluster.eu/calendar/event-details/">https://aspis-cluster.eu/calendar/event-details/</a></td>
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PROGRAM AT A GLANCE
## PROGRAM AT A GLANCE

### MONDAY, NOVEMBER 21ST, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>09:00-13:00</td>
<td><strong>PRE-CONFERENCE WORKSHOP</strong>&lt;br&gt;Bridging across methods in the biosciences (BeAMs): the opportunity of COVID-19 (organised with JRC)&lt;br&gt;Chairs: Dr Annamaria Carusi &amp; Dr Sofia Batista Leite</td>
</tr>
<tr>
<td>13:00-14:00</td>
<td><strong>LUNCH BREAK (PRE-CONFERENCE WORKSHOP PARTICIPANTS ONLY)</strong></td>
</tr>
<tr>
<td>14:00-14:20</td>
<td><strong>OPENING OF ESTIV 2022 CONGRESS</strong>&lt;br&gt;Chairs: Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia – ESTIV President) &amp; Dr João Barroso (JRC, Ispra Italy – ESTIV Vice-president)</td>
</tr>
<tr>
<td>14:20-15:10</td>
<td><strong>KEYNOTE LECTURE BY DR TIMOTHY ALLEN</strong>&lt;br&gt;University of Cambridge, Cambridge, UK / Ladder Therapeutics, Toronto, Canada&lt;br&gt;Use of Artificial Intelligence and Machine Learning in the Chemical Risk Assessment&lt;br&gt;Chairs: Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia – ESTIV President) &amp; Dr João Barroso (JRC, Ispra Italy – ESTIV Vice-president)</td>
</tr>
<tr>
<td>15:10-15:15</td>
<td><strong>ESTIV EARLY SCIENTIFIC CAREER AWARD CEREMONY 2020/2022</strong>&lt;br&gt;Chairs: Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia – ESTIV President) &amp; Dr João Barroso (JRC, Ispra Italy – ESTIV Vice-president)</td>
</tr>
<tr>
<td>15:15-16:00</td>
<td><strong>BEMF AWARD CEREMONY AND BEMA LECTURE</strong>&lt;br&gt;Chairs: Prof. Stina Oredsson (Björn Ekwall Memorial Foundation, Sweden)</td>
</tr>
<tr>
<td>16:00-16:30</td>
<td><strong>COFFEE BREAK, VISITING EXHIBITION AREA &amp; POSTER VIEWING</strong></td>
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<tr>
<td>16:30-18:30</td>
<td><strong>SESSION 1</strong>&lt;br&gt;BIO-ENGINEERING, STEM CELLS AND DISEASE MODELS&lt;br&gt;Chairs: Prof. Peter Loskill (University of Tübingen, Germany) &amp; D. João Barroso (JRC, Ispra, Italy – ESTIV Vice-president)</td>
</tr>
<tr>
<td>19:00-20:30</td>
<td><strong>WELCOME RECEPTION &amp; POSTER SESSION</strong>&lt;br&gt;SPONSORED BY THE AMERICAN SOCIETY FOR CELLULAR AND COMPUTATIONAL TOXICOLOGY (ASCCT)</td>
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# TUESDAY, NOVEMBER 22ND, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30-10:30</td>
<td><strong>SESSION 2A</strong>&lt;br&gt;MODELS, BIOMARKERS AND ASSAYS FOR ENDOCRINE DISRUPTION AND DEVELOPMENTAL TOXICITY&lt;br&gt;Chairs: Dr Thomas Krudsen (US EPA, Durman, USA) &amp; Prof. Arno Gutleb (LIST, Luxembourg, Luxembourg)</td>
</tr>
<tr>
<td>8:30-10:30</td>
<td><strong>SESSION 2B</strong>&lt;br&gt;CHALLENGES IN COSMETICS SAFETY&lt;br&gt;Chairs: Dr Nathalie Alépée (L’Oréal, Paris, France) &amp; Dr Erwin Van Vliet (Houten, Utrecht, Netherlands)</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>COFFEE BREAK, VISITING EXHIBITION AREA &amp; POSTER VIEWING</td>
</tr>
<tr>
<td>11:00-13:00</td>
<td><strong>SESSION 3A</strong>&lt;br&gt;MODELS, BIOMARKERS AND ASSAYS FOR SYSTEMIC AND IMMUNE TOXICITY&lt;br&gt;Chairs: Prof. Emanuela Corsini (Università degli Studi di Milano, Milan, Italy) &amp; Dr. Jochem Louise (Wageningen University, Wageningen, The Netherlands)</td>
</tr>
<tr>
<td>11:00-13:00</td>
<td><strong>SESSION 3B</strong>&lt;br&gt;ORGAN-ON-A-CHIP &amp; MICROPHYSIOLOGY SYSTEMS&lt;br&gt;Chairs: Dr Sofia Batista Leite (IRC, Ispra, Italy) &amp; Dr Pau Sancho-Bru (Institut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain)</td>
</tr>
<tr>
<td>13:00-14:00</td>
<td>LUNCH BREAK, VISITING EXHIBITION AREA &amp; POSTER VIEWING</td>
</tr>
<tr>
<td>13:00-14:00</td>
<td><strong>SESSION 3B</strong>&lt;br&gt;ILSI/ESTIV SPONSORED LUNCH SESSION: APPLICATION OF NON-ANIMAL METHODS AND CONCEPTS IN FOOD RISK ASSESSMENT&lt;br&gt;Chairs: Dr Isabelle Guelinckx (ILSI Europe, Belgium) &amp; Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia)</td>
</tr>
<tr>
<td>14:00-16:00</td>
<td><strong>SESSION 4A</strong>&lt;br&gt;COMPUTATIONAL TOXICOLOGY – IN SILICO MODELLING, READ-ACROSS, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING&lt;br&gt;Chairs: Prof. Olivier Taboureau (University Paris Diderot, Paris, France) &amp; Dr Tim Allen (Ladder Therapeutics, Toronto, Canada)</td>
</tr>
<tr>
<td>14:00-16:00</td>
<td><strong>SESSION 4B</strong>&lt;br&gt;LOCAL TOXICITY TESTING (SAFETY AND EFFICACY)&lt;br&gt;Chairs: Dr Montserrat Mitjans (Universitat de Barcelona, Barcelona, Spain) &amp; Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia)</td>
</tr>
<tr>
<td>16:00-16:30</td>
<td>COFFEE BREAK, VISITING EXHIBITION AREA &amp; POSTER VIEWING</td>
</tr>
<tr>
<td>16:30-17:30</td>
<td><strong>EARLY STAGE RESEARCHER SESSION 1</strong>&lt;br&gt;Chairs: Dr Erwin van Vliet (Houten, Utrecht, Netherlands) &amp; Dr Pau Sancho-Bru (Institut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain)</td>
</tr>
<tr>
<td>16:30-17:30</td>
<td><strong>SPONSORED SESSION</strong>&lt;br&gt;Chairs: Erin Hill (IIVS, Gaithersburg, MD, USA) &amp; Dr Clive Roper (Roper Toxicology Consulting Limited, UK)</td>
</tr>
<tr>
<td>17:30-18:30</td>
<td><strong>EARLY STAGE RESEARCHER SESSION 2</strong>&lt;br&gt;Chairs: Dr Montserrat Mitjans (Universitat de Barcelona, Barcelona, Spain) &amp; Dr. Marketa Dvořáková (NIPM Prague, Prague, Czech republic)</td>
</tr>
<tr>
<td>18:30-19:30</td>
<td>CAREER DEVELOPMENT SESSION</td>
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<tr>
<td>19:30-</td>
<td><strong>SPONSORED SESSION</strong>&lt;br&gt;WINE RECEPTION IN THE POSTER AREA&lt;br&gt;SPONSORED BY THE UNIVERSITY OF BARCELONA</td>
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### WEDNESDAY, NOVEMBER 23RD, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>8:30-10:30</td>
<td>Auditorium</td>
<td>SESSION 5A: TOXICOKINETICS AND IN VITRO–IN VIVO EXTRAPOLATION</td>
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<tr>
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<td>Chairs: Dr. Nicole Kleinsteuber (NICEATM, Durham, USA) &amp; Dr. Jochem Louette (Wageningen University, Wageningen, The Netherlands)</td>
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<tr>
<td>8:30-10:30</td>
<td>Garbi 1+2</td>
<td>SESSION 5B: IN VITRO SYSTEMS TO ASSESS RESPIRATORY TOXICITY</td>
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<tr>
<td></td>
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<td>Chairs: Erin Hill (IIVS, Gaithersburg, MD, USA) &amp; Clive Roper</td>
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<td>(Roper Toxicology Consulting Limited, UK)</td>
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</tbody>
</table>

- **Coffee Break, Visiting Exhibition Area & Poster Viewing**

### THURSDAY, NOVEMBER 24TH, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30-10:30</td>
<td>Auditorium</td>
<td>SESSION 7A: DEVELOPMENTAL NEUROTOXICITY (DNT)</td>
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<td></td>
<td></td>
<td>Chairs: Dr. Ellen Fritsche &amp; Clive Roper (Roper Toxicology Consulting Limited, UK)</td>
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<tr>
<td>8:30-10:30</td>
<td>Garbi 1+2</td>
<td>SESSION 7B: IMPLEMENTATION OF NAMS INTO REGULATORY FRAMEWORKS – ESTIV</td>
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<td>ESTIV PROVIDES 50 LUNCH BOXES AT ENTRANCE OF THE MEETING ROOM</td>
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<td>ESTIV – SPONSORED SESSION – ASIAN PROGRESS IN 3RS: 3RD ASIAN CONGRESS AND KSAE UPDATES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chairs: Dr. Yasunari Kanda (National Institute of Health Sciences, Japan) &amp; Dr. Kwang-mahn Kim (Yonsei University, South Korea)</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>Tramuntana</td>
<td>SESSION 8A: IN VITRO METHODS FOR SAFETY ASSESSMENT OF MEDICAL DEVICES</td>
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<td>Chairs: Christian Pellevoisin (Mastek Life Sciences, France) &amp; Dr. Helena Kandarova (CEM SAS, Bratislava, Slovakia)</td>
</tr>
<tr>
<td>11:00-12:40</td>
<td>Auditorium</td>
<td>SESSION 8B: IN VITRO COVID-19 RESEARCH / LUNG AND CARDIOVASCULAR MODELS</td>
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<td>Chairs: Prof. Arno Gutleb (LUST, Luxembourg, Luxembourg) &amp; Dr. Yasunari Kanda (National Institute of Health Sciences, Japan)</td>
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<tr>
<td>12:40-13:30</td>
<td>Auditorium</td>
<td>CONGRESS CLOSING CEREMONY</td>
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<td>Chairs: Dr. Helena Kandarova (CEM SAS, Bratislava, Slovakia) &amp; Dr. João Barroso (JRC, Ispra Italy)</td>
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<tr>
<td>14:00-19:00</td>
<td>Llevant</td>
<td>POST-CONFERENCE WORKSHOP EPISKIN ACADEMY</td>
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<td>14:00-19:00</td>
<td>Garbi 1+2</td>
<td>ASPIS OPEN SYMPOSIUM</td>
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### FRIDAY, NOVEMBER 25TH, 2022

<table>
<thead>
<tr>
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<th>Session</th>
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<tbody>
<tr>
<td>8:30-16:00</td>
<td>Llevant</td>
<td>POST-CONFERENCE WORKSHOP EPISKIN ACADEMY</td>
</tr>
<tr>
<td>8:30-16:00</td>
<td>Garbi 1+2</td>
<td>ASPIS OPEN SYMPOSIUM</td>
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</table>
KEYNOTE AND INVITED SPEAKERS
KEYNOTE SPEAKER

Monday, November 21st 2022
14:20 - 15:10

Session: 4a. Computational toxicology – in silico modelling, read-across, artificial intelligence and machine learning

Use of Artificial Intelligence and Machine Learning in Chemical Risk Assessment

Timothy Allen

INVITED SPEAKERS

Monday, November 21st 2022
16:30 - 18:30

Session: 1. Bio-engineering, stem cells and disease models

Recapitulating Complex Human Tissues using Organ-on-chip and Organoid Technologies

Peter Loskill

Tuesday, November 22nd 2022
08:30 - 10:30

Session: 2a. Models, biomarkers and assays for endocrine disruption and developmental toxicity

Computational systems models for human-predictive developmental toxicity

Thomas Knudsen

Tuesday, November 22nd 2022
11:00 - 13:00

Session: 3a. Models, biomarkers and assays for systemic and immune toxicity

New approach methodologies in immunotoxicology with a focus on immunosuppression

Emanuela Corsini
Tuesday, November 22nd 2022
14:00 - 16:00

Session: 4a. Computational toxicology – in silico modelling, read-across, artificial intelligence and machine learning

Bioinformatics and Network science applied in toxicology

Olivier Taboureau

Tuesday, November 22nd 2022
14:00 - 16:00

Session: 4a. Computational toxicology – in silico modelling, read-across, artificial intelligence and machine learning

The key role of computational toxicology for Toxicology for the 21st Century 2.0

Thomas Hartung

Wednesday, November 23rd 2022
08:30 - 10:30

Session: 5a. Toxicokinetics and in vitro – in vivo extrapolation

An Open, Accessible Interface for Contextualizing Chemical Effects

Nicole C. Kleinstreuer

Wednesday, November 23rd 2022
11:00 - 13:00

Session: 6a. In vitro methods for safety testing of biopharmaceuticals/biotherapies/vaccines

In vitro assays to predict retroviral vector-induced genotoxicity

Michael Rothe

Thursday, November 24th 2022
11:00 - 12:40

Session: 8a. In vitro methods for safety assessment of medical devices

ISO 10993 SERIES: ADDED VALUES OF 3D MODELS FOR BIOCOMPATIBILITY MEDICAL DEVICES

Christian Pellevoisin
CellCulture Inserts and pre-loaded Well Plates

cellQART®
made by SABEU

cellQART.com
PrediScreen assay

For a complete study of DNA damages with a sensitive and predictive assay, using the two biomarkers γH2AX and pH3. Performed on Human cell lines, the PrediScreen assay studies different effects of the compound tested, such as the genotoxic and/or cytotoxic potential, the mode of action involved (clastogenic or aneugenic) and the need of metabolic bioactivation.

Our analysis
- No animal testing
- Human cell lines
- High throughput screening
- Low and/or high doses
- Short and/or long exhibitions
- Biological triplicates
- Complete report within 15 days

Our assay

<table>
<thead>
<tr>
<th>Assay</th>
<th>Sensitivity (%)</th>
<th>Specificity (%)</th>
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</thead>
<tbody>
<tr>
<td>PrediScreen</td>
<td>95</td>
<td>87</td>
</tr>
<tr>
<td>Ames (bacterial reversion)</td>
<td>60</td>
<td>77</td>
</tr>
<tr>
<td>Micronucleus test</td>
<td>79</td>
<td>54</td>
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<tr>
<td>Chromosome aberrations</td>
<td>79</td>
<td>55</td>
</tr>
<tr>
<td>Mammalian mutation</td>
<td>81</td>
<td>48</td>
</tr>
</tbody>
</table>

Kopp et al., Archives of Toxicology 2019

What else

PrediProtect assay
Study the antioxidant effect of a compound to determine its anti-aging potential.

PrediRepair assay
Study the protective effect of the DNA of a compound against any type of damage.

contact@preditox.fr    http://preditox.fr
DETAILED PROGRAMME
Monday, November 21st, 2022

08:00-19:00  Room: Hall Auditorium
Congress registration

09:00-13:00  Room: Garbi 1+2
Pre-conference workshop – Bridging across methods in the biosciences (BeAMs): the opportunity of COVID-19 (organised with JRC)

Chairs: Dr Annamaria Carusi & Dr Sofia Batista Leite

Cross-disciplinarity in all its forms remains very difficult to put into practice, even though it is widely acknowledged as an important way of meeting scientific challenges. In this workshop we offer tools to assist in putting into practice meaningful cross-disciplinarity, that can be a game changer in the broad arena of toxicology. Rather than a series of talks, our workshop is a series of hands-on activities in which participants explore their own and others’ attitudes towards cross-disciplinarity, and the challenges to accomplishing it. Together we look at strategies for overcoming challenges, and tools for bridging across different approaches to common research topics.

The example the CIAO project will be used as a springboard for a close look at how bridging can be achieved. This is a cross-disciplinary collaborative effort to make sense of the tsunami of data being generated on the pathways of Covid19, using the Adverse Outcome Pathways Framework as a tool for knowledge management. Bringing together scientists and practitioners from multiple backgrounds and disciplines, the project has been as interesting for the insights it has brought into the disease pathways of Covid19, as for the way in which it has been an opportunity to see bridging across methods in action. The aim of the workshop is to provide participants with a toolkit for analysing challenges to cross-disciplinarity that they encounter in their research contexts, and for achieving forms of cross-disciplinarity that genuinely enrich their practice.

The team who will facilitate the workshop includes scientists, socio-philosopher of science, and a creative facilitator. Below you can find their short bios.

13:00-20:30  Room: Tramuntana
Exhibition

13:00-14:00  Room: Tramuntana
Lunch break

14:00-14:20  Room: Auditorium
Opening of ESTIV 2022 Congress
14:20-15:10
Room: Auditorium

Keynote lecture

Use of Artificial Intelligence and Machine Learning in the Chemical Risk Assessment

Dr Timothy Allen\textsuperscript{1,2}
\textsuperscript{1}University of Cambridge, Cambridge, UK
\textsuperscript{2}Ladder Therapeutics, Toronto, Canada

Chairs: Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia – ESTIV President) & Dr João Barroso (JRC, Ispra Italy -ESTIV Vice-president)

15:10-15:15
Room: Auditorium

ESTIV Early Scientific Career Award ceremony 2020/2022

Chairs: Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia – ESTIV President) & Dr João Barroso (JRC, Ispra Italy -ESTIV Vice-president)

15:15-16:00
Room: Auditorium

BEMF Award ceremony and BEMA Lecture

Chairs: Prof. Stina Oredssson (Björn Ekwall Memorial Foundation, Sweden)
16:00-16:30  Room: Tramuntana
Coffee break, visiting exhibition area & poster viewing

16:30-18:30  Room: Auditorium

Session 1 – Bio-engineering, stem cells and disease models

Chairs: Prof. Peter Loskill (University of Tübingen, Germany) & Dr João Barroso (JRC, Ispra, Italy – ESTIV Vice-president)

O-1-1 (INVITED) Recapitulating Complex Human Tissues using Organ-on-chip and Organoid Technologies
Peter Loskill1,2,3
1Eberhard Karls University Tübingen
2Natural and Medical Sciences Institute (NMI)
3European-Organ-on-Chip-Society (EUROoCS)

O-1-2 iPSC-derived Brain Organoids as versatile research tool for Developmental Neurotoxicity and Neurological disorders
Lena Smirnova1
1Johns Hopkins University

O-1-3 Evaluation of 3D-Bioprinted Human Skin Equivalents for In Vitro Permeation Testing
Alec T. Salminen1
1National Center for Toxicological Research, U.S. Food and Drug Administration, Jefferson, AR, USA

O-1-4 iPSC-derived hepatic stellate cells for in vitro fibrosis modelling
Raquel A. Martinez Garcia de la Torre1,
1Insititut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

O-1-5 Transport of per- and polyfluoroalkyl substances (PFAS) across human induced pluripotent stem cell (hiPSC) derived intestinal epithelial cells in comparison with human primary intestinal epithelial cells and Caco-2 cells
Aafke Janssen1
1Wageningen Food Safety Research

19:00-20:30  Room: Tramuntana, Hall Tramuntana and Hall Auditorium
Welcome Reception and Poster Session

The Welcome Reception and Poster Session is supported by The American Society for Cellular and Computational Toxicology (ASCCT).
Tuesday, November 22\textsuperscript{nd}, 2022

08:00-19:00  Room: Hall Auditorium

Congress registration

08:30-10:30  Room: Auditorium

Session 2a – Models, biomarkers and assays for endocrine disruption and developmental toxicity

Chairs: Dr Thomas Knudsen (US EPA, Durman, USA) & Prof. Arno Gutleb (LIST, Luxembourg, Luxembourg)

O-2A-1 (INVITED) Computational systems models for human-predictive developmental toxicity

Thomas Knudsen\textsuperscript{1}
\textsuperscript{1USEPA}

O-2A-2 Upcoming validated mechanistic in vitro methods for the identification of thyroid disruptors.

Ingrid Langezaal

O-2A-3 Interlaboratory OECD Validation of the Rapid Androgen Disruption Adverse outcome Reporter (RADAR) assay

Andrew Tindall\textsuperscript{1}
\textsuperscript{1Laboratoire WatchFrog, 1 rue Pierre Fontaine, 91000 Evry, France}

O-2A-4 Validation of a New Approach Method (NAM) testing DIO1 inhibition using a human microsome based, colorimetric assay

Nina Hambruch\textsuperscript{1}
\textsuperscript{1BASF SE, Experimental Toxicology and Ecology, Ludwigshafen, Germany}

O-2A-5 Immunological implications of Endocrine Disrupting Chemicals (EDCs): RACK1 as a bridge between the endocrine and the immune systems

Erica Buoso\textsuperscript{1,2}
\textsuperscript{1Dept. of Drug Sciences, University of Pavia, Italy}
\textsuperscript{2Dept. of Pharmacology and Experimental Therapeutics, Boston University, School of Medicine, MA, USA}

O-2A-6 Beyond AOPs: A mechanistic evaluation of OF NAMs in dart testing

Predrag Kukic\textsuperscript{1}
\textsuperscript{1Unilever}

08:30-10:30  Room: Garbi 1+2

Session: 2b. Challenges in cosmetics safety

Chairs: Nathalie Alépée (L’Oréal, Paris, France) & Erwin van Vliet (Houten, Utrecht, Netherlands)
O-2B-1  Global Regulatory Landscape for Cosmetics - Challenges and Opportunities in Utilising NAMs
  
  Jay Ingram
  1Delphic HSE Solutions Ltd.
  2Humane Society International Animal Free Safety Assessment Collaboration

O-2B-2  Overview of New Approach Methodologies for eye hazard identification according to UN GHS
  
  Els Adriaens
  1Adriaens Consulting, Belgium

O-2B-3  Application of an updated Next Generation Risk Assessment (NGRA) framework for skin allergy: a case study for Diethanolamine
  
  Nathalie Alépée
  1L’Oréal, Research & Innovation, Aulnay-sous-Bois, Clichy, France

O-2B-4  New challenges for environmental safety of cosmetics
  
  Véronique PoulSEN
  1L’Oréal, Research & Innovation, Aulnay-sous-Bois, Clichy, France

10:30-11:00  Room: Tramuntana
  
  Coffee break, visiting exhibition area & poster viewing

11:00-13:00  Room: Auditorium
  
  Session: 3a. Models, biomarkers and assays for systemic and immune toxicity
  
  Chairs: Emanuela Corsini (Università degli Studi di Milano, Milan, Italy) & Jochem Louisse (Wageningen University, Wageningen, The Netherlands)

O-3A-1 (INVITED)  New approach methodologies in immunotoxicology with a focus on immunosuppression
  
  Emanuela Corsini
  1Laboratory of Toxicology
  2Department of Pharmacological and Biomolecular Sciences
  3Università degli Studi di Milano, Milan, Italy

O-3A-2  In vitro evaluation of both skin irritation and sensitization hazard of mixtures and finished products using the SENS-IS assay.
  
  Françoise Cottrez
  1ImmunoSearch, Grasse, France

O-3A-3  Multicellular, liver microtissues reliably depict key events of the liver fibrosis AOP
  
  Laura Suter-Dick
  1School of Life Sciences (FHNW), Switzerland
  2Swiss Centre for Applied Human Toxicology (SCAHT), Switzerland
O-3A-4  Immunotoxicity of crystalline silica particles: in vitro screening models and use of high-dimensional immune cell profiling
Birgitte Lindeman¹
¹Norwegian Institute of Public Health, Division of Climate and Environmental Health, Oslo, Norway

O-3A-5  A 3D Alveolar In Vitro Test System for the Prediction of Chemical Respiratory Sensitizers
Sabina Burla¹
¹Luxembourg Institute of Science and Technology

O-3A-6  In vitro assessment of skin sensitizing potential of process-related impurities in polymeric materials during product development.
Andy Forreryd¹
¹SenzaGen AB

11:00-13:00  Room: Garbi 1+2
Session: 3b. Organ-on-a-chip & Microphysiological Systems
Chairs: Sofia Batista Leite (JRC, Ispra, Italy) & Pau Sancho-Bru (Institut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain)

O-3B-1  A new immunocompetent OOC platform for culturing 3D human tissues with capillary flow-driven immune cells and investigating their cross-talk
Silvia Scaglione¹
¹React4life

O-3B-2  INTEGRATION OF HUMAN-STEM-CELL-BASED EMBRYOID BODIES INTO A MICROFLUIDIC MULTI-TISSUE PLATFORM FOR SYSTEMIC EMBRYOTOXICITY TESTING
Julia Boos¹
¹ETH Zürich

O-3B-3  Multi-Organ-Chip Technologies: The effect of application route on the metabolism
Ilka Maschmeyer¹
¹TissUse GmbH

O-3B-4  A BREATHING LUNG-ON-CHIP MODEL: AN ADVANCED IN-VITRO TOOL FOR DRUG TESTING AND TOXICOLOGY
Aude Rapet¹
¹Alveolix AG, Swiss Organs-on-Chip Innovation, Bern, Switzerland

O-3B-5  A microfluidic bone marrow chip for the safety profiling of complex large molecules in pre-clinical drug development
Leopold Koenig¹
¹TissUse GmbH, Berlin, Germany
O-3B-6  A human beating heart on chip for on-line screening of drug cardiotoxicity  
Roberta Visone\textsuperscript{1,2}  
\textsuperscript{1}BiomimX Srl  
\textsuperscript{2}Politecnico di Milano  

13:00-14:00  Room: Tramuntana  
Lunch break, visiting exhibition area & poster viewing  

13:00-14:00  Room: Garbi 1+2  
ILSI/ESTIV-sponsored lunch session: Application of non-animal methods and concepts in food risk assessment  
Chairs: Dr Isabelle Guelinckx (ILSI Europe, Belgium) & Dr Helena Kandarova (CEM SAS, Bratislava, Slovakia)  
*ESTIV provides 50 lunch boxes at the entrance of the meeting room (first come first served)  

14:00-16:00  Room: Auditorium  
Session: 4a. Computational toxicology – in silico modelling, read-across, artificial intelligence and machine learning  
Chairs: Olivier Taboureau (University Paris Diderot, Paris, France) & Tim Allen (Ladder Therapeutics, Toronto, Canada)  

O-4A-1 (INVITED)  Bioinformatics and Network science applied in toxicology  
Olivier Taboureau\textsuperscript{1}  
\textsuperscript{1}Université Paris Cité  

O-4A-2 (INVITED)  The key role of computational toxicology for Toxicology for the 21st Century 2.0  
Thomas Hartung\textsuperscript{1}  
\textsuperscript{1}Johns Hopkins University  

O-4A-3  Turning AOPs into testable hypotheses with natural language processing and tissue-specific knowledge graphs  
Ignacio Tripodi\textsuperscript{1}  
\textsuperscript{1}Sciome, LLC  

O-4A-4  Integrating in vitro and in silico data for screening and characterization of tattoo pigments for human health risk assessment
Prachi Pradeep¹
¹German Federal Institute for Risk Assessment (BfR), Department of Chemical and Product Safety, Berlin, Germany

O-4A-5 Modelling in vitro time-concentration response of gene expression to chemical exposure

Donatella Carpi¹
¹EC - Joint Research Centre; Chemical Safety and Alternative Methods Unit

14:00-16:00 Room: Garbi 1+2

Session: 4b. Local toxicity testing (safety and efficacy)

Chairs: Montserrat Mitjans (Universitat de Barcelona, Barcelona, Spain) & Helena Kandarova (CEM SAS, Bratislava, Slovakia)

O-4B-1 A new OECD guideline based on Defined Approaches for Eye Hazard Assessment of non-surfactant liquids combining Physicochemical Properties and OECD-approved Test Methods

Els Adriaens
¹Adriaens Consulting, Belgium

O-4B-2 MODELING SKIN INFLAMMATION USING 2D AND 3D IN VITRO MODELS

Manon Barthe¹
¹PKDERM Laboratories

O-4B-3 In vitro investigation of aluminum bioavailability after exposure of oral care products

Elena Grasselli¹
¹ComplianceLab, Dipartimento Scienze della Terra dell’Ambiente e della DISTAV,

O-4B-4 Integrative evaluation strategy for skin sensitization : the mixtures challenge

Eric Andres¹
¹Oroxcell

O-4B-5 Application of a next generation risk assessment framework for skin sensitisation using new approach methodologies (NAMs): geraniol case study

Renato Ivan de Ávila¹
¹Unilever Safety and Environmental Assurance Centre (SEAC)

16:00-16:30 Room: Tramuntana

Coffee break, visiting exhibition area & poster viewing

16:30-17:30 Room: Auditorium
Early Stage Researcher Session 1

Chairs: Dr Erwin van Vliet (Houten, Utrecht, Netherlands) & Dr Pau Sancho-Bru (Institut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain)

O-ESCS1-1 A single procedure to generate functional hiPSCs-derived liver organoids - Towards an innovative tools suitable for drug screening

Méryl Roudaut12
1HCS Pharma, Lille, France
2Institut du thorax, INSERM U1087, CNRS 6291, IRS-UN, CHU-Nantes, Nantes, France

O-ESCS1-2 In vitro screening for developmental neurotoxicity of flame retardants using a 3D human primary neural progenitor cell assay: a case study

Jördis Klose1
1IUF-Leibniz Research Institute for Environmental Medicine, Auf’m Hennekamp 50, 40225 Dusseldorf, NRW, Germany

O-ESCS1-3 Predicting developmental toxicity of pyrethroid insecticides in vitro using human induced pluripotent stem cells

Yanying Ma1
1National Food Institute, Technical University of Denmark

O-ESCS1-4 CHARACTERIZATION OF EXT RACELLULAR VESICLES RELEASED BY PERIPHERAL BLOOD MONONUCLEAR CELLS EXPOSED TO POLYCYCLIC AROMATIC HYDROCARBONS AND STUDY OF THEIR INTERACTION WITH ENDOTHELIAL CELLS

Rima Souki1,2
1Univ Rennes, Inserm, EHESP, Irset (Institut de recherche en santé, environnement et travail), UMR_S 1085, F-35000 Rennes, France

O-ESCS1-5 Towards a personalized kidney-on-a-chip derived from induced pluripotent stem cells

Michelle Jäschke1
1TissUse GmbH

16:30-18:30 Room: Garbi 1+2

Sponsored sessions

Chairs: Erin Hill (IIVS, Gaithersburg, MD, USA) & Dr Clive Roper (Roper Toxcilogy Consulting Limited, UK)

Research support to replace animal models: the Alternatives Research & Development Foundation (ARDF) Annual Open grant program

Angela Hvitved1
1Alternatives Research & Development Foundation
Organoids and their application in toxicity studies
Salvatore Simmini$^1$
$^1$STEMCELL Technologies

Bioprinting - a paradigm shift in the field of toxicology testing
Caio Valeriano$^1$
$^1$REGENHU

17:30-18:30  Room: Auditorium

Early Stage Researcher Session 2

Chairs: Dr Montserrat Mitjans (Universitat de Barcelona, Barcelona, Spain) & Dr. Marketa Dvóřaková (NIPH Prague, Prague, Czech Republic)

O-ESCS2-1 The Electro-Mitochondrial Coupling of a Microphysiological Human Heart
Avner Ehrlich$^1$
$^1$Alexander Grass Center for Bioengineering, The Hebrew University of Jerusalem, Jerusalem, Israel.

O-ESCS2-2 Affinity prediction between cosmetic ingredients and CD54/CD86 receptors by molecular docking: A novel approach to predict skin sensitisation potential
Ahmet Kati$^1$
$^1$Experimental Medicine Research and Application Center, University of Health Sciences Turkey, 34662, Uskudar, Istanbul, Turkey.

O-ESCS2-3 ELECTROSPUN SCAFFOLD-BASED APPROACHES FOR TOXICOLOGICAL SCREENING IN SKIN, PULMONARY, AND INTESTINAL EPITHELIAL TISSUE
Filipa Leal$^1$
$^1$BIOFABICS, Rua Alfredo Allen 455, 4200-135 Porto, Portugal

O-ESCS2-4 Developing a method to incorporate laminar flow into scaffold-based 3D cell cultures for more physiologically relevant nutrient and drug delivery.
Zachary Sitte$^1$, Matthew Lockett$^1$
$^1$University of North Carolina

O-ESCS2-5 Kidney organoids for toxicology: application to the development of Adverse Outcome Pathway (AOP) study of nephrotoxicity induced by uranium
Marie Frerejacques$^1$
$^1$Institut de Radioprotection et de Sûreté Nucléaire (IRSN), PSE-SANTE, SESANE, LRSI, Fontenay-aux-Roses, F-92262 France

18:30-19:30  Room: Auditorium

Career development session
19:30-20:30  Room: Tramuntana + Hall Auditorium

Wine reception in the poster area (sponsored by the University of Barcelona)

The Wine Reception is supported by University of Barcelona

Wednesday, November 23\textsuperscript{rd}, 2022

08:00-19:00  Room: Hall Auditorium

Congress registration

08:30-10:30  Room: Auditorium

Session: 5a. Toxicokinetics and in vitro – in vivo extrapolation

Chairs: Nicole Kleinstreuer (NICEATM, Durham, USA) & Jochem Louisse (Wageningen University, Wageningen, The Netherlands)

O-5A-1 (INVITED) An Open, Accessible Interface for Contextualizing Chemical Effects
Nicole Kleinstreuer\textsuperscript{1}
\textsuperscript{1}NICEATM

O-5A-2 Crucial role of Toxicokinetics and ADME methods in application of Next generation Risk Assessment
Andreas Schepky\textsuperscript{1}
\textsuperscript{1}Beiersdorf AG, Global toxicology

O-5A-3 Generic PBK models based on in vitro and in silico input data: How to gain trust in the results?
Ans Punt\textsuperscript{1}
\textsuperscript{1}Wageningen Food Safety Research (WFSR), part of Wageningen University and Research, Wagningen, the Netherlands

O-5A-4 USE OF A 3D-IN VITRO MODEL FOR THE ASSESSMENT OF LIVER METABOLISM RELATED TO NEUROTOXICITY OF OCCUPATIONALLY RELEVANT CHEMICALS
Sophie Werner\textsuperscript{123}
\textsuperscript{1}University of Applied Sciences and Arts Northwestern Switzerland, School of Life Sciences, Muttenz, Switzerland
\textsuperscript{2}Department of Pharmaceutical Sciences, University of Basel, Switzerland
\textsuperscript{3}Swiss Centre for Applied Human Toxicology (SCAHT), Basel, Switzerland
O-5A-5 Design and Application of a Physiologically Based Kinetic (PBK) Model for Uptake of Gases and Vapours
Norman Nowak
1 Fraunhofer ITEM, Hannover, Germany

O-5A-6 High-Throughput Assessment of the Abiotic Stability of Test Chemicals in In Vitro Bioassays
Julia Huchthausen
1 Helmholtz Centre for Environmental Research – UFZ, Department of Cell Toxicology, Permoserstr. 15, 04318 Leipzig, Germany

08:30-10:30 Room: Garbi 1+2

Session: 5b. In vitro systems to assess respiratory toxicity

Chairs: Erin Hill (IIVS, Gaithersburg, MD, USA) & Clive Roper (Roper Toxicology Consulting Limited, UK)

O-5B-1 Evaluating human cell-based in vitro systems to assess respiratory toxicity – is more complex better?
Andreas Stucki
1 PETA Science Consortium International e.V.

O-5B-2 Development and characterization of a decellularized bronchial scaffold for application in physiologically relevant 3D airway models reconstruction
Artur Christian Garcia da Silva
1 Laboratory of Research and Education in In vitro Toxicology (Tox In) – Faculty of Pharmacy, Federal University of Goiás (UFG)

O-5B-3 The application of alveolar macrophage responses for respiratory safety assessment
Victoria Hutter
1 ImmuONE Ltd

O-5B-4 Prediction of acute respiratory toxicity of volatile liquids using physiologically relevant in vitro inhalation model
Jan Markus
1 MatTek In Vitro Life Science Laboratories, Bratislava, Slovakia

O-5B-5 IMPACT OF AIRBORNE PARTICULATE MATTER FROM PORT, INDUSTRIAL AND URBAN AREAS ON OXIDATIVE AND INFLAMMATORY RESPONSES ON LUNG CELLS.
Margaux Cochard
1 Unité de Chimie Environnementale et Interactions sur le Vivant, UCEiV UR4492, SFR Condorcet FR CNRS-3417, Université du Littoral Côte d’Opale (ULCO), Dunkerque, France

10:30-11:00 Room: Tramuntana

Coffee break, visiting exhibition area & poster viewing
11:00-12:30 Room: Auditorium

**Session: 6a. In vitro methods for safety testing of biopharmaceuticals/biotherapies/vaccines**

Chairs: Michael Rothe (Hannover Medical School, Hannover, Germany) & Anne Marie Vinggaard (Technical University of Denmark, Denmark)

**O-6A-1 (INVITED)** In vitro assays to predict retroviral vector-induced genotoxicity

Michael Rothe¹
¹Hannover Medical School, Hannover, Germany

**O-6A-2** State-of-the-Art in Secondary Pharmacology and its Impact on the Safety of New Medicines

Jean-Pierre Valentin¹
¹UCB Biopharma, Development Science, Braine l'Alleud, Belgium

**O-6A-3** Exploiting Real-Time Assays to Multiplex Orthogonal Methods and Determine Mechanism of Action During In Vitro Safety Testing

Terry Riss¹
¹Promega Corporation

**O-6A-4** Botulinum neurotoxin potency testing in vitro – Motor neurons differentiated from human induced pluripotent stem cells serve as highly suitable target cells

Bettina Seeger¹
¹Institute for Food Quality and Safety, Research Group Food Toxicology and Alternative/Complementary Methods to Animal Experiments, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany

**O-6A-5** Supported Gel Slabs: Decreasing the barrier of entry for use of 3D cell cultures in the drug discovery workflow

Zachary Sitte¹
¹University of North Carolina

**O-6A-6** Mechanistic investigations and early de-risking of QRS complex widening to improve cardiac safety profile of novel anti-malarials

Jean-Pierre Valentin¹
¹UCB Biopharma

11:00-12:30 Room: Garbi 1+2

**Session: 6b. Knowledge sharing and education**

Chairs: Pilar Vinardell (Universitat Barcelona, Barcelona, Spain) & Erin Hill (IIVS, Gaithersburg, MD, USA)

**O-6B-1** The science of sharing knowledge about models and methods

Pierre Deceuninck¹
¹European Commission, Joint Research Centre (JRC)
O-6B-3  Scientific Validity of Non-Animal-Derived Antibodies
João Barroso1
1European Commission, Joint Research Centre

O-6B-4  Animals in the (Petri) Dish: Towards a Truly Animal-free Laboratory
Tilo Weber1
1Animal Welfare Academy of the German Animal Welfare Federation, Neubiberg, Germany

O-6B-5  OUTCOMES OF A WORKSHOP TO ADDRESS ANIMAL METHODS BIAS IN SCIENTIFIC PUBLISHING
Catharine Krebs1
1Physicians Committee for Responsible Medicine

O-6B-6  A Course on Animal-Free Risk Assessment of Cosmetics and Cosmetic Ingredients
Renato de-Avila1
1Unilever

13:00-14:00  Room: Tramuntana
Lunch break, visiting exhibition area & poster viewing

13:00-14:00  Room: Garbi 1+2
JSAAE – sponsored session – Asian progress in 3Rs:
3rd Asian congress and KSAAE updates
Chairs: Dr Yasunari Kanda (National Institute of Health Sciences, Japan) & Dr Kwang-Mahn Kim (Yonsei University, South Korea)

*ESTIV provides 50 lunch boxes at the entrance of the meeting room (first come first served)

14:00-15:00  Room: Auditorium
Programme Change: Presentation and Panel Discussion
Building scientific confidence in NAMs Toward Regulatory Acceptance.
Chair: Erin Hill (IIVS)
Dr. Robert Landsiedel, BASF SE, Dr. Nicole Kleinstreuer, NICEATM, USA, Dr. João Barroso, JRC, Italy

15:00-16:00  Room: Auditorium
Poster teaser session: Flash presentations of selected posters
16:00-16:30  Room: Tramuntana
Coffee break, visiting exhibition area & poster viewing

16:30-18:30  Room: Garbi 1+2
ESTIV General Assembly (ESTIV members)

19:30-22:30  Room: Fincas Mas Solers
Congress gala dinner (19:30-22:30) & social evening (22:30 – 01:00)

Thursday, November, 24th, 2022

08:00-19:00  Room: Hall Auditorium
Congress registration

08:30-10:30  Room: Auditorium
Session: 7a. Developmental Neurotoxicity (DNT)

O-7A-1  Developmental neurotoxicity (DNT) as a case study on how to assemble an in vitro testing battery for a complex regulatory in vivo endpoint
Ellen Fritsche¹
¹IUF - Leibniz Research Institute for Environmental Medicine

O-7A-2  FIRST STEPS FOR CREATING AN ONTOLOGY FOR COGNITIVE FUNCTION DEFECTS FOR REGULATORY APPLICATION
Eliska Kuchovska¹
¹IUF - Leibniz Research Institute for Environmental Medicine, Düsseldorf, Germany

O-7A-3  Evaluation of a human iPSC-derived BBB model for repeated dose toxicity testing
Maxime Culot¹
¹University of Artois - BBB Lab

O-7A-4  Comparative developmental neurotoxicity of NSAIDs in the zebrafish
Elisabet Teixido¹
¹GRET-Toxicology Unit, Department of Pharmacology, Toxicology and Therapeutic Chemistry, Faculty of Pharmacy and Food Sciences, University of Barcelona, 08028, Barcelona, Spain.
O-7A-5  AN ADVERSE OUTCOME PATHWAY (AOP) BASED APPROACH TO IDENTIFY CHANGES IN PRENATAL BRAIN PROGRAMMING
Marta Barenys¹
¹Toxicology Unit of the Department of Pharmacology, Toxicology and Therapeutic Chemistry, Faculty of Pharmacy and Food Sciences, University of Barcelona, Spain.

O-7A-6  EFFECTS OF SPIKE PROTEIN AND TOXIN-LIKE PEPTIDES FOUND IN COVID-19 PATIENTS ON HUMAN 3D NEURONAL/GLIAL MODEL UNDERGOING DIFFERENTIATION: POSSIBLE SARS-COV-2 IMPLICATIONS FOR BRAIN DEVELOPMENT.
Laure-Alix Clerbaux¹
¹European Commission, Joint Research Centre (JRC), Ispra, Italy

08:30-10:30  Room: Garbi 1+2
Session: 7b. Implementation of NAMs into regulatory frameworks – establishing scientific confidence, development of standards and good practices

Chairs: Marketa Dvořáková (NIPH Prague, Prague, Czech republic) & Jochem Louisse (Wageningen University, Wageningen, The Netherlands)

O-7B-1  Method developers are key players ensuring in-house reproducibility and relevance of in vitro methods paving the way for regulatory acceptance
Sandra Coecke¹
¹European Commission Joint Research Centre, Ispra, Italy

O-7B-2  Good In Vitro Method Practices Certification: A Roadmap for Implementation and Harmonization
Amanda Ulrey¹
¹IIVS

O-7B-3  TOWARDS STANDARDIZATION OF TESTING METHODS FOR COMPARATIVE IN VITRO METABOLISM (CIVM) STUDIES
Annelies Noorlander¹
¹Wageningen Food Safety Research (WFSR), part of Wageningen University and Research, Wageningen, the Netherlands

O-7B-4  IMPACT OF CURRENT REGULATORY CHANGES ON TOXICOLOGY TESTING REQUIREMENTS FOR CHEMICALS IN EUROPE
Manon Beekhuizien¹
¹Charles River Laboratories

10:30-11:00  Room: Tramuntana
Coffee break, visiting exhibition area & poster viewing

11:00-12:40  Room: Auditorium
Session: 8a. In vitro methods for safety assessment of medical devices

Chairs: Christian Pellevoisin (MatTek Life Sciences, France) & Helena Kandarova (CEM SAS, Bratislava, Slovakia)

O-8A-1 (INVITED) ISO 10993 SERIES: ADDED VALUES OF 3D MODELS FOR BIocompatibility MEDICAL DEVICES

Christian Pellevoisin¹
¹MatTek Europe, Bratislava, Slovakia

O-8A-2 Why in-vivo methods for the assessment of sensitization might be outdated in the near future

Stefan Weissensteiner¹
¹OFI – Austrian Research Institute for Chemistry and Technology

O-8A-3 HEMOCOMpatibility of bacteriaPhobic coated CatHETHERS

Robert Teixido Bartes²
²Facultat de Farmàcia i Ciències de l'Alimentació, Universitat de Barcelona (Spain)

O-8A-4 BIOCOMPATIBILITY OF MEDICAL DEVICES: EYE IRRITATION OF PRESERVED AND UNPRESERVED EYE DROPS ON HCE MODEL

Marisa Meloni¹
¹VitroScreen srl, Via Mosè Bianchi 103, 20149 Milan, Italy

O-8A-5 Measurement of metal sensitizer potency with the SENS-IS assay. Application to Medical devices

Hervé Groux¹
¹ImmunoSearch, Grasse, France

11:00-12:40 Room: Garbi 1+2

Session: 8b. In vitro COVID-19 research / Lung and cardiovascular models

Chairs: Arno Gutleb (LIST, Luxembourg, Luxembourg) & Yasunari Kanda (National Institute of Health Sciences, Japan)

O-8B-1 Knowledge from Human Relevant Cell, Tissue and Mathematics-based Methods as Key Tools for Understanding COVID-19 Dynamics, Kinetics, Symptoms, Risk Factors and Non-conventional Treatments

Sandra Coecke¹
¹European Comission Joint Research Centre, Ispra, Italy

O-8B-2 3D Human airway epithelial models to study SARS-CoV-2 pathogenesis and to discover antivirals

Samuel Constant¹
¹Epithelix

O-8B-3 Effects of drugs formerly repurposed for COVID-19 treatment on connexin43 hemichannels and pannexin1 channels
Axelle Cooreman\textsuperscript{1}  
\textsuperscript{1}Entity of in vitro toxicology and dermato-cosmetology, Department of Pharmaceutical and Pharmacological Sciences, Vrije Universiteit Brussel  

**O-8B-4**  
**Use of a human bronchial epithelium model to assess the impact of PM2.5 exposure on the severity of viral infections**  
Chloé Chivé\textsuperscript{1,2}  
\textsuperscript{1}Université Paris Cité, Functional and Adaptative Biology unit, UMR8251-CNRS, PARIS  
\textsuperscript{2}French Environment and Energy Management Agency 20, avenue du Grésillé – BP 90406 49004 ANGERS.  

**O-8B-5**  
**Metabolic Regulation of SARS-CoV-2 Infection**  
Avner Ehrlich\textsuperscript{1}  
\textsuperscript{1}Grass Center for Bioengineering, Benin School of Computer Science and Engineering, Jerusalem, Israel  

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12:40-13:30  
**Room: Auditorium**  
**Congress closing ceremony**  
Chairs: Dr. Helena Kandarova (CEM SAS, Bratislava, Slovakia) & Dr. João Barroso (JRC, Ispra Italy)
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3. Posters

Please scan the QR code below to go to the poster list and find the number of the presenting poster.

Poster presenters are requested to stand next to their posters for discussion during the poster sessions which will take place during the Welcome Reception, Wine Reception, breaks and lunches on all congress days.

All posters should be set up before the congress starts on the first day. Posters should be dismantled before the end of the congress. The organization will remove all posters after the congress. If the poster is not collected it will be discarded after the congress.

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Contact: Catherine Willett
HSI Senior Director, Science & Regulatory Affairs
linkedin.com/in/catherine-willett-75a7a85