

APPLIED *IN VITRO* TOXICOLOGY COURSE

Belvaux - Luxembourg

8 - 13 January 2017



organized by



ESTIV

The European Society of Toxicology In Vitro

BelToX

SCOPE

In vitro toxicity methods are gaining importance, in particular as a response to a number of European legislative changes which call for more mechanistically-based decision-making and limit or even prohibit the use of animal experimentation for risk assessment purposes. Hence, there is an urgent demand for toxicologists and risk assessors to implement *in vitro* testing results into regulatory safety evaluation of chemicals. This course aims at meeting this ubiquitous need by training individuals who wish to start or pursue a career in this direction or to gain an update on the state-of-the-art of applied *in vitro* toxicology. The course has been approved by EUROTOX as part of the European Registered Toxicologist (ERT) program.

TARGET AUDIENCE

This course is intended for (post)doctoral students and early-stage scientists from industry, academia or regulatory agencies who recently became active in the field of *in vitro* toxicology. Applicants should ideally have a background in toxicology, biology, chemistry, (bio)medical sciences, pharmaceutical sciences, veterinary sciences or equivalent. Attendees are expected to be proficient in English. A maximum of 25 participants will be enrolled in the course on a first-come/first-served basis, yet priority will be given to members of ESTIV, BelToX and affiliated societies.

COURSE ORGANIZATION

This 6-day course is organized by The European Society of Toxicology *In Vitro* (ESTIV) in collaboration with The Belgian Toxicology Association (BelToX) and combines cutting-edge lectures by leading experts with highly interactive group exercises. The lectures cover a broad spectrum of subjects pertinent to regulatory, screening and investigative *in vitro* toxicology. The group exercises consist of real-life case studies in which the participants will apply the principles of *in vitro* toxicology to the risk assessment of chemical substances. Course examination will be based upon presentation and discussion of the case studies. The participants will receive a certificate in the case of a positive evaluation. Furthermore, the participants will be given the opportunity to gain hands-on experience with respect to *in vitro* modelling.

COURSE TOPICS

- European legislative framework and international guidelines for *in vitro* toxicity testing of chemicals.
- Use and validation of 3R-alternative methods in Europe.
- *In vitro* methods for assessing cytotoxicity, skin sensitisation, skin/eye irritation/corrosion, immunotoxicity, genotoxicity, carcinogenicity and reproductive toxicity.
- Development and application of cell lines, organ-specific models, tridimensional models, bioreactors and stem cell models in *in vitro* toxicology.
- Use of “omics”-based methods in *in vitro* toxicology.
- Good cell culture practice.
- *In vitro* kinetics and *in vitro-in vivo* extrapolation.
- *In vitro* aspects of pathway-based toxicology.
- *In vitro* models used in the field of nanotoxicology.
- Hands-on exercise in assembling tridimensional cell culture models.

PRACTICAL INFORMATION

- Course dates: 8-13 January 2017.
- Course location: Belvaux (15 km south of Luxembourg Ville).
- Course language: English.
- Course capacity: 25 participants.
- Registration: <http://estivbeltox2017.webs.com/>
- Course fee: covers participation in lectures and group exercises, course notes and other materials, lunches, coffee breaks, social event and dinner.

	Registration before 1 October 2016	Registration after 1 October 2016
Academia*	€800	€900
Industry*	€1100	€1300

* ESTIV and BelTox members benefit from an additional €50 reduction.

CONTACT

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ESTIV
The European Society of Toxicology *In Vitro*

ESTIV MEMBERSHIP

ESTIV membership is free for bachelor, master and (post)doctoral students. The membership fee is €30 for individual members and €18 for members of affiliated societies, including the Associazione Italiana Tossicologia *In Vitro* (CellTox), the Dutch-Belgium Society for *In Vitro* Methods (INVITROM), the UK *In Vitro* Toxicology Society (IVTS) and the Scandinavian Society for Cell Toxicology (SCCT). Membership benefits are:

- Reduced registration fee for the ESTIV congresses, workshops and courses.
- Reduced membership fee for affiliated societies.
- Reduced fee for the official journal of ESTIV Toxicology *In Vitro*.
- Free access to ESTIV newsletters and admission to the ESTIV e-mail network.
- Membership of ESTIV Facebook page and LinkedIn.

For membership applications, please consult the ESTIV website (www.estiv.org) or contact the ESTIV secretary (secretary@estiv.org).