

CONTACTS

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ESTIV MEMBERSHIP

The membership fee is €30 for individual members, €10 for students, and €18 for members of affiliated societies.

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
- Membership of the ESTIV Facebook page and LinkedIn group
- For membership applications, please consult the ESTIV website (www.estiv.org) or contact the ESTIV secretary (secretariat@estiv.org).

The Luxembourg Institute of Science and Technology
(LIST) - Luxembourg

24 - 29 November 2024



APPLIED IN VITRO TOXICOLOGY TRAINING COURSE

organized by

ESTIV

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. This course can be considered to fulfill the criteria for one of the elements of the European Registered Toxicologist (ERT) training 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 30 participants will be enrolled in the course on a first-come/first-served basis, yet priority will be given to members of ESTIV and ESTIV affiliated societies.

COURSE ORGANIZATION

This 6-day course is organized by the European Society of Toxicology *In Vitro* (ESTIV) in collaboration with Luxembourg Institute of Science and Technology (LIST) and ESTIV corporate members. It 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 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 sensitization, skin/eye/lung/intestinal irritation/corrosion, skin absorption, immunotoxicity, genotoxicity and carcinogenicity.
- 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 3D cell culture models and advanced microfluids systems.

PRACTICAL INFORMATION

- Course dates: 24 – 29 November 2024
- Course location: LIST
- Course language: English
- Course capacity: 30 participants.
- Registration: www.estiv.org
- Course fee: covers participation in lectures and group exercises, course notes and other materials, lunches, coffee breaks, social event and dinner.

	Registration before 31 March 2024	Registration after 1 April 2024
Academia*	€850	€950
Industry*	€1150	€1350

* ESTIV members benefit from an additional €50 reduction.