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ESTIV

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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. Membership benefits are:

- Reduced registration fee for 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 the ESTIV Facebook page and LinkedIn group.

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

BelToX

BelToX MEMBERSHIP

BelToX membership is free for bachelor and master students. The membership fee is €50 for individual members. Membership benefits are:

- Reduced registration fee for BelToX congresses, workshops and courses.
- Reduced registration fee for EUROTOX and SETAC events.
- Free EUROTOX membership.
- Free access to BelToX newsletters and admission to the BelToX e-mail network.
- Membership of the BelToX Facebook page and LinkedIn group.

For membership applications, please consult the BelToX website (www.beltox.be) or contact the BelToX secretary (admin@beltox.be).

APPLIED *IN VITRO* TOXICOLOGY COURSE

Brussels - Belgium

5 - 10 April 2020



organized by

ESTIV

BelToX

 **MatTek** IN VITRO
LIFE SCIENCE
LABORATORIES

 **UCLouvain**
BRUXELLES

SCOPE

In vitro toxicity methods are gaining importance, in particular as a response to a number of European legislative changes that 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 incorporate data from *in vitro* test methods into regulatory safety evaluation of chemicals. This course aims at meeting this important 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 is to be considered as the *in vitro* module of the toxicology training program of UCLouvain-BelTox, which will count for the *curriculum* for the University Certificate in Toxicology of the UCLouvain. This course is recognized by EUROTOX as eligible for European Registered Toxicologist (ERT) accreditation (topic B19).

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 ESTIV and BelTox members.

COURSE ORGANIZATION

This 6-day course is organized by the European Society of Toxicology *In Vitro* (ESTIV) in collaboration with the Belgian Society of Toxicology and Ecotoxicology (BelTox), the Université Catholique de Louvain (UCLouvain) and MatTek *In Vitro* Life Science Laboratories s.r.o. 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. Furthermore, the participants will be given the opportunity to gain hands-on experience with respect to skin and eye irritation testing *in vitro* as well as gastro-intestinal testing *in vitro*. An open-book exam will be organized at the end of the course.

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 irritation/corrosion, immunotoxicity, genotoxicity, carcinogenicity and developmental toxicity.
- Development and application of cell lines, organ-specific models, tridimensional and reconstructed models, bioreactors and stem cell models in *in vitro* toxicology.
- Use of “omics”-based methods in *in vitro* toxicology.
- Good *in vitro* method practices/good cell culture practice.
- *In vitro* kinetics and *in vitro-in vivo* extrapolation.
- *In vitro* aspects of pathway-based toxicology.
- Non-animal testing technologies and strategies used for chemical hazard and risk assessment in Europe.
- Hands-on training on skin and eye irritation and gastro-intestinal testing *in vitro*.

PRACTICAL INFORMATION

- Course dates: 5-10 April 2020.
- Course location: UCLouvain Brussels-Woluwé.
- Course language: English.
- Course capacity: 30 participants.
- Registration: <https://www.estiv.org/projects-activities/training-course/>
- Course fee: covers participation in lectures and group exercises, course notes and other materials, lunches, coffee breaks, social event and dinner.

	Registration before 1 December 2019	Registration after 1 December 2019
Academia*	€850	€950
Industry*	€1150	€1350

* ESTIV and BelTox members benefit from a single €50 reduction.