

Stockholm, November 8-9, 2012



**EUROTOX COURSES (BTC &
ATC) AND FELLOWSHIP
PROGRAM: EXPERIENCE &
FUTURE DEVELOPMENT**

**EUROTOX Education
Subcommittee**



Nurşen Başaran (2008-2013)
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Education and Eurotox

- Eurotox mission is to foster toxicology, both scientifically and educationally (Art. 2.1).
- Having established the European Register of Toxicologists in 1994, EUROTOX aims to harmonise within Europe education and training programs in toxicology to facilitate recognition (Art. 2.6).



Education and Eurotox

- The EUROTOX Education Subcommittee is responsible for all activities of EUROTOX related to the basic and advanced academic education, post-graduate education and professional training of toxicologists in Europe.
- The EUROTOX Education Subcommittee is also involved in the organization of continuous education courses (CECs), workshops, and panel discussion during the EUROTOX annual meeting.
- Eurotox funds and provides educational resources available to countries of Central and Eastern Europe at minimal cost.

Education and Eurotox

- Typically, every year EUROTOX funds **Basic and Advanced Toxicology** courses in collaboration with National Member Societies to promote both basic and advanced training in toxicology.
- Eurotox also makes decisions on financial support for young toxicologists to enable them to participate in toxicological courses (**fellowship program**).

BTC & ATC: structure

- One week course
- The courses consist at least of 10 lectures:
 - The lecturers are from different countries of the EUROTOX organization (mainly from the subcommittees of education and registration), as well as from the local host society.
- 5 case study sessions (small groups): presentation on the last day
- At the end of the course, there is a written examination:
 - those who pass the exam will receive a **certificate**.
 - the others will receive a **certificate of attendance**.

Basic Toxicology Courses

- For the Basic Toxicology courses preliminary experience or knowledge of toxicology is not required but willingness of learning / evidence of interest or an occupational necessity should be stated.
- Capability of understanding English is required.

Basic Toxicology Courses

- The following **topics** are generally addressed:
 - Introduction to toxicology: basic concepts, the dose response
 - Factors affecting toxicity
 - Xenobiotic metabolism and its role in xenobiotic-induced toxicity
 - Chemical Carcinogenesis
 - Organ toxicity: immune system, liver, kidney
 - Toxicity Testing and Regulatory Toxicology
 - Risk and Exposure Assessment

Basic Toxicology Courses

Basic Toxicology Courses:

- 2004 - Ljubljana (Slovenia)
- 2005 - Plitvice Lakes (Croatia)
- 2006 - Borovetz Resort (Bulgaria)
- 2007 - Stara Lesna (Slovakia)
- 2009 - Tirana (Albania)
- 2010 - Crete (Greece)
- 2011 - Belgrade (Serbia)
- 2012 - Bucharest (Romania)



2009 Basic Toxicology Course - Albania

- The course had 33 students :
 - Albania (13),
 - Turkey (6),
 - Croatia (2),
 - Romania (4),
 - Germany (1), Italy (1),
 - The Netherlands (1), Poland (1),
 - Portugal (1), UK (1).



2012 Basic Toxicology Course - Romania

- 37 participants from:
 - Romania (17)
 - Greece (7)
 - Turkey (5)
 - Poland (4)
 - Estonia (2)
 - Germany (1)
 - The Netherlands (1)

Advanced Toxicology Courses

- For the advanced toxicology course, a background in toxicology is required.
- A graduate level qualification in pharmacy, pharmacology, medicine, biochemistry, biology or chemistry is needed.

Advanced Toxicology Courses

Some of the following topics have been presented:

- Methodological Advances in toxicology
- Alternative methods in toxicology - 3R:
 - Computer-based estimation methods for use in the regulatory assessment of chemicals
 - PBPK Modelling
 - Alternative methods in the assessment of immunotoxic responses

Advanced Toxicology Courses

- Risk Assessment - Risk Management
- Risk characterization, Risk/Benefit analysis
- Use of human data in chemical risk assessment
- Regulations for the industrial chemicals- Classification and Labelling REACH
- Food toxicology-concepts in food toxicology
- Endocrine disruptures

Advanced Toxicology Courses

Eurotox Advanced Toxicology Courses:

- 2010- Sofia-Bulgaria
- 2011- Kusadasi- Turkey
- 2012- Porto- Portugal



2010 Advanced Toxicology Course - Bulgaria

- The first advanced toxicology course was held in the Military Medical Academy - Sofia-Bulgaria, November 8-13 2010 and was hosted by Bulgarian Society of Toxicology



2010 Advanced Toxicology Course

Participants were from:

- Bulgaria (17)
- Turkey (5)
- Greece (3)
- Poland (2)
- Estonia (2)
- Macedonia (2)
- Romania (2)
- Austria (1)
- Belgium (1)

2011 Advanced Toxicology Course - Turkey



2011 Advanced Toxicology Course - Turkey

44 Participants from;

- 20 Turkey (20)
- 6 Greece (6)
- 5 Romania (5)
- 3 Estonia (3)
- 2 Spain (2)
- 2 Ukraine (2)
- Denmark (1), Italy (1)
- Slovenia (1), Germany (1)
- Portugal (1), Serbia (1)

The Feedbacks of the Basic and Advanced Toxicology Courses

According to the evaluation forms (of last 2 years) from students attending basic and advanced courses, the **feedbacks were very positive:**

- They found that the course covered the areas they expected (even more)
- They were happy with the documents given
- They fully agree that the level of the course correlated with the description

The Feedbacks of the Basic and Advanced Toxicology Courses

- They wrote that the course fulfilled their expectations and covered almost all the area regarding basic toxicology course
- They found a clear connection between the content of the learning outcomes as well as the examination of the course
- They also wrote that they were highly motivated in taking the course and will recommend the course to other students

The Feedbacks of the Basic and Advanced Toxicology Courses

The students indicated that they have been happy to attend the course not only having toxicology information or improved their knowledge, but also making collaboration with each other.

EUROTOX Fellowships for ERT Courses

- **EUROTOX Fellowships for Attendance of European Registered Toxicologist (ERT) Courses and Cross-Border Exchange of Teachers**
- EUROTOX fellowships provide financial support and incentives for cross-border attendance of ERT courses to individuals motivated for a career in toxicology.
- Please send your application to fellowship@eurotox.com

Deadline prolonged to January 20, 2013