

TOXICOLOGY

Science of Chemical Safety

University Course for Postgraduates

Research Unit Toxicology and Prevention

Dept. Institute of Cancer Research
Clinic of Internal Medicine I
Medical University Vienna

Since 1993

AIM:

Toxicology is the science of chemical safety. It investigates adverse effects of chemical compounds on humans, animals and environment and provides for their prevention and treatment. The University Course offers an education and training program in all relevant subjects.

Successful attendants are qualified to

- identify and characterize adverse effects of chemical compounds,
- elucidate mechanisms of action on the cellular, biochemical and molecular level,
- estimate the probability of occurrence of adverse effects (risk assessment),
- contribute responsibly to risk-benefit evaluation, risk management and risk communication,
- develop measures for prevention, diagnosis and treatment of adverse effects.

PARTICIPANTS:

Postgraduate (doctoral) students and professionals in health authorities, industry or universities.

Requirement: Graduation in Medicine, Veterinary Medicine or Natural Sciences such as Biology, Pharmacy, Chemistry, Biochemistry, Molecular Biology, Food Sciences, Agronomy, etc.

Number of places: 25-30 per course

NEXT COURSE:

Begin: Summer Term 2007

DURATION:

Three years

DESCRIPTION:

Toxicology is a multidisciplinary science. The course provides comprehensive knowledge and skills in one field of toxicology, and acquisition of at least basic knowledge in the other relevant fields of toxicology (see table). Completion of the course requires

- three years of full-time practical toxicological work in recognized institutions. Success is documented by a *Master Thesis* which consists of at least three publications or comprehensive scientific reports in the area of toxicology
- attendance of 15 modules (table) providing theoretical knowledge in the different fields of toxicology. Modules consist of lectures, demonstrations, visits, and exercises.

EXAMINATION:

Written examination after each module.

At completion: Approval of the *Master Thesis*. Oral examination (discussion) which demonstrates the ability to deal with toxicological problems.

FACULTY:

International Experts from universities, regulatory authorities and industry.

CERTIFICATES:

Master of Science (Toxicology), Medical University Vienna.

Accreditation: After a total of 5 years of toxicological work the graduate can apply for registration by the Austrian Society of Toxicology (ASTOX) and by the European Societies of Toxicology (EUROTOX) as *EUROTOX Registered Toxicologist, ERT*.

