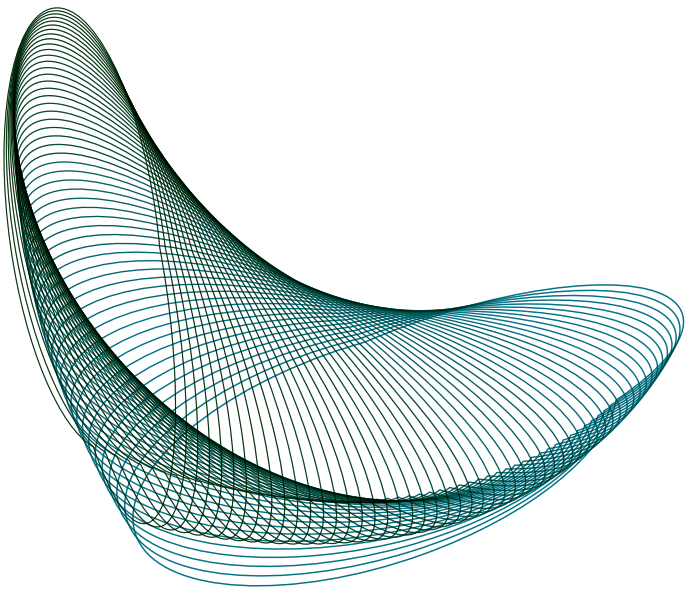


Genetic Toxicology

Postgraduate Programmes 2010



Genetic Toxicology

MSc

Genetic Toxicology and Environmental Mutagenesis

This part-time programme belongs to the University's modular training programme in Applied Toxicology, which is the largest training programme of its type in Europe and attracts participants from all over the world. It is designed to provide in-post scientists with advanced training and a higher qualification in toxicology.

The range of training in Genetic Toxicology, ie modules, Diploma and Masters, has been developed in response to requests from UK industry, government departments, as well as the UK Environmental Mutagen Society.

The Masters programme provides a unique training niche for the University of Surrey in an area where the UK provides the major international leading companies in the pharmaceutical, chemical and contract research industries. Economic pressures and work commitments make long-term release of staff for training in toxicology a challenge. The modular training programme meets this challenge.

Participants are often science, medical or veterinary graduates currently working in a toxicology environment or seeking to use knowledge of genetic toxicology in their areas.

It is ideal for research managers, regulatory affairs specialists, occupational and environmental health scientists and physicians, and anyone who needs to keep abreast of the developments in modern toxicology without having to enrol on a full-time training programme.

Programme Structure

This part-time programme is designed for those in full-time employment. It consists of six compulsory modules essential for the basic understanding of genetic toxicology, and two supplementary optional modules. The compulsory modules are an obligatory component of the MSc/Postgraduate Diploma in Genetic Toxicology. Four compulsory modules and four optional modules are offered each year.

Each module is an intensive, self-contained, five-day taught course, preceded by preparatory study (for which carefully selected distance learning material will be provided), followed by consolidation and assessment. The six compulsory modules are scheduled in a two-year cycle, accompanied by four optional modules per year. The optional modules are offered subject to demand.

Teaching methods include lectures, discussion panels, tutorials, case studies, demonstrations and home assignments. Lectures are given by recognised experts in their field. Each module on the programme is approved by the University for the accumulation of credits towards the MSc, Postgraduate Diploma or Postgraduate Certificate in Genetic Toxicology.

The Postgraduate Certificate requires the successful completion of four compulsory modules, namely Testing Methods in Genetic Toxicology and Environmental Mutagenesis I, Testing Methods in Genetic Toxicology and Environmental Mutagenesis II, Mutations and Human Health, as well as DNA Lesions, Repair and Mutation Induction. Candidates for the Postgraduate Certificate have a maximum of 36 months from the date of registration to complete the programme.

The Postgraduate Diploma requires the successful completion of the six compulsory modules as well as two supplementary optional modules. Candidates for the Postgraduate Diploma have a maximum of 48 months from the date of registration to complete the programme.

The MSc requires successful completion of a dissertation. Candidates for the MSc in Genetic Toxicology have a maximum of 72 months from the date of registration to complete the programme.

Compulsory Modules

- Testing Methods in Genetic Toxicology and Environmental Mutagenesis I
- Testing Methods in Genetic Toxicology and Environmental Mutagenesis II
- Mutations and Human Health
- DNA Lesions, Repair and Mutation Induction
- Metabolism and Human Variation
- Study Design, Quality and Interpretation in Genotoxicity Testing

Optional Modules

Supplementary modules can currently be selected from the programmes that are part of the modular training programme, Applied Toxicology, and Pharmaceutical Medicine/Clinical Pharmacology. They include:

- Alternative Methodologies to the Use of Animals in Toxicology
- Bioinformatics and Omics
- Biologics
- Biomarkers
- Carcinogenicity – Interpretation of Pathological Changes in Rodent and Non-Rodent Species
- Dermal Toxicology
- Design of In Vivo Studies
- Ecotoxicology
- Endocrine Pathology
- Experimental Inhalation Toxicology
- Food Chemical Safety Evaluation
- Haematology and Clinical Biochemistry
- Immunotoxicology
- Occupational Toxicology (including REACH implementation and legislation)
- Paediatric Toxicology
- Plant Protection Products and Plant Biotechnology
- Safety Assessment of Pharmaceutical Agents
- Techniques in Safety Assessment

For a complete list of the modules available, please contact the programme administrator.

Factfile

Typical entry requirements

Applicants will normally possess a minimum of a science degree in a relevant subject, together with workplace experience in toxicology or a closely related field.

Registration requires two scientific referees willing to support the application. Application to register for the Postgraduate Certificate, Postgraduate Diploma or MSc can be made following the first or second module attended. Retrospective application is permitted provided not more than four modules have been completed.

There are no formal entrance requirements for participants not wishing to register for the MSc/Postgraduate Diploma, Postgraduate Certificate although a scientific background to at least degree level is recommended. Proficiency in English is a prerequisite.

Applications should be received at least one month prior to attending a module, at which time the pre-course reading will be distributed.

Programme length

2 to 6 years part-time only

Planned intake

32 per module

Assessment

Each module is assessed by a written examination on the final day of the course and a home assignment to be completed within ten weeks of the end of the module.

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Every effort has been made to ensure the accuracy of the information contained in this brochure at the time of going to press. The University reserves the right, however, to introduce changes to the information given including the addition, withdrawal or restructuring of degree programmes.

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