

Short Courses in **Biological and Biomedical Science 2011/2012**

Essential facts

The courses are accredited by the **Institute of Biomedical Science**

Many address the theoretical and practical knowledge and experience required by the IBMS to evidence the portfolio leading to the award of Specialist Diploma.

Held in modern facilities on Staffordshire University's campus just two minutes walk from Stoke-on-Trent Railway Station



Your next step

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For further details please see course information overleaf.

Whether it's for a day or a week, this wide range of courses offers a mix of theory and practice of value to both newly qualified staff, and those wanting to update knowledge and skills perhaps in support of Continued Professional Development (CPD).

Understanding Antibiotic Resistance and Susceptibility Testing - one day

£105 - discounted to £95 for IBMS members

Clinical Mycology: Identification of Fungal Pathogens - two days

£210 - discounted to £190 for IBMS members

Laboratory Diagnosis of Parasites of the Gastro-intestinal Tract one day

£105 - discounted to £95 for IBMS members

Identification of Anaerobes - one day

£105 - discounted to £95 for IBMS members

Laboratory Diagnosis of Blood Borne Viruses - one day

£105 - discounted to £95 for IBMS members

Current Topics in the Diagnosis of Respiratory Infections - one day

£105 - discounted to £95 for IBMS members

Molecular Biology for Microbiologists - one day

£105 - discounted to £95 for IBMS members

Update in Sexually Transmitted Infections

£105 - discounted to £95 for IBMS members

Molecular Techniques: A Practical Approach to PCR and Real Time PCR as Diagnostic Tools - two days

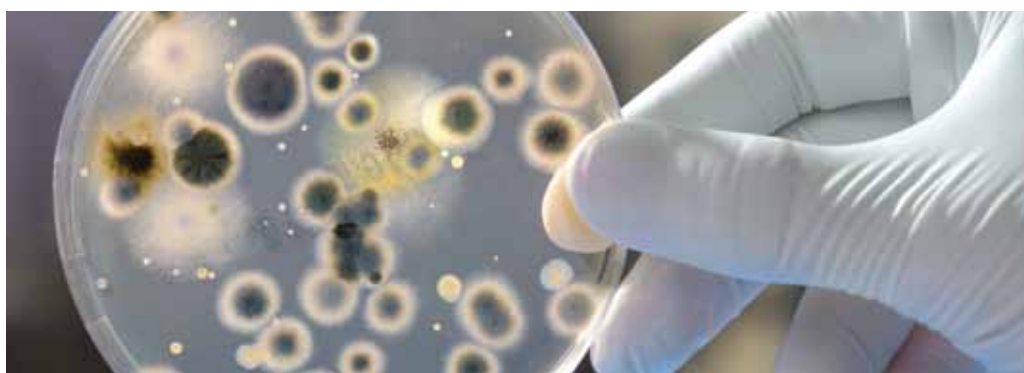
£360 - discounted to £320 for IBMS members

Practical Techniques in Molecular Biology: 'From Genome to Gene' - one week

£820 - discounted to £730 for IBMS members

Medical Microbiology for the Specialist Portfolio

This 30 credit M level award will deliver the in depth knowledge of clinical microbiology required for staff working towards the award of specialist diploma. The award is delivered as a mix of distance learning with optional face-to-face workshops to provide staff with the opportunity for group discussions.
£700 - discounted to £630 for IBMS



Short Courses in Biological and Biomedical Science 2011/2012

Understanding Antibiotic Resistance and Susceptibility Testing

A one day course which will provide participants with an overview of the action and resistance of commonly used antibiotics. Key issues such as ESBLs and MRSA will be discussed in the context of clinical implications of resistance. The course will include a workshop looking at methods available for antibiotic susceptibility testing and will include qualitative and quantitative testing, detection of resistance markers, recording and interpretation of results and understanding the limitations of testing. Current national and international guidelines for susceptibility testing will also be discussed.

An introduction to Clinical Mycology: Identification of Fungal Pathogens

This course is delivered over two consecutive days and is designed to provide participants with an introduction to laboratory investigation of mycoses and is also useful for those wishing to update their practical skills and knowledge. Material will be delivered as a combination of lectures, workshops and practical sessions.

The course will cover:

- General introduction to fungal structure, growth, and classification
- Fungal pathogens, epidemiology, emerging fungal infectious disease, linked with immunocompromised patients and antifungal therapy
- Clinical mycology including microscopic examination of direct films, processing samples for fungal culture, evaluation of fungal growth media, methods for presumptive, and full identification of fungal isolates, recording, and interpretation of results.

Laboratory Diagnosis of Parasites of the Gastro-intestinal Tract

A one day course combining practical sessions supported by appropriate lectures. The course focuses on the identification of faecal parasites by microscopy and includes methods of preparation of samples, current views about pathogenicity of various parasites and parasites associated with immunosuppression. The course will also provide participants with a general introduction to the structure and life cycles of common gastro-intestinal parasites, their pathogenicity and epidemiology.

Identification of Anaerobes

Combining lectures, workshops, and practical sessions, this course covers the collection, transport, and storage of specimens, and culture and identification of anaerobes in clinical material - it will also give an insight into their relevance in clinical microbiology. The aim is to demonstrate how anaerobic isolation and identification can be achieved in the routine microbiology laboratory.

Laboratory Diagnosis of Blood Borne Viruses

This mix of lectures and workshops provides a fundamental overview of the role of Hepatitis viruses, HIV, HSV, etc, in clinical infection, and describes current diagnostic methods. This is an informal course with opportunities for discussion: particularly case studies and the role of Point of Care Testing.

Current Topics in the Diagnosis of Respiratory Infections

These lectures and workshops will cover all aspects of infectious respiratory disease, addressing the cause of respiratory infections and their laboratory diagnosis.

The course will cover:

- A general introduction to causative agents including viruses, bacteria (with an emphasis on TB)
- The role of Health Protection Agency in the control of swine flu
- The role of the Mycobacterial Reference Laboratories
- Current topics in respiratory infections.

Molecular Biology for Microbiologists

Providing an introduction to molecular biology and the role it plays in the microbiology laboratory through lectures and workshops, the aim is to remove the myth behind PCR and other molecular techniques. Current commercially available automation and tests - Chlamydia, MRSA, C.difficile, HIV resistance testing, and antiviral monitoring will be discussed.

Update in Sexually Transmitted Infections

Effectively combining lectures and workshops, this course discusses the wide range of infectious agents associated with sexually transmitted disease, and provides an update in currently occurring agents and their detection in the laboratory. It will also address all aspects of laboratory diagnosis, especially the role of molecular testing.

Molecular Techniques: A Practical Approach to PCR and Real Time PCR as Diagnostic Tools

A largely 'hands-on' laboratory course developed to refresh or update your knowledge and skills in Diagnostic/Molecular Biology. Day One delivers a theoretical and practical grounding in PCR based diagnostic methods in detection and mutation analysis, while Day Two demonstrates the use of PCR to determine/type bacterial strains.

Practical Techniques in Molecular Biology: 'From Genome to Gene'

Focused on 'hands-on' work, this laboratory course is for anyone needing a sound practical and theoretical knowledge of key techniques in molecular biology. It will incorporate the isolation, restriction and ligation of DNA, plasmid preparation, PCR, and automated DNA sequencing.

How do I apply?

To make an enquiry or booking please contact:
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