



## WE ARE SITUATED

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Within a 5 minute walk of Stoke-on-Trent train station and a 5 minute drive from the A500, allowing direct access to J15 and J16 of the M6.

## VEHICULAR PARKING

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FREE parking facilities are available, providing 10-14 days notice is given in advance.

## ACCOMMODATION

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A list of hotels, including their location relative to the university, can be forwarded upon request. (COURSE FEE DOES NOT INCLUDE ACCOMMODATION)

## FOR FURTHER INFORMATION

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### Sara Buckley

Staffordshire University, Faculty of Sciences,  
Mellor Building, College Road,  
Stoke on Trent, ST4 2DE, Staffordshire.

Tel: 01782 294489

E-mail: [s.l.buckley@staffs.ac.uk](mailto:s.l.buckley@staffs.ac.uk)

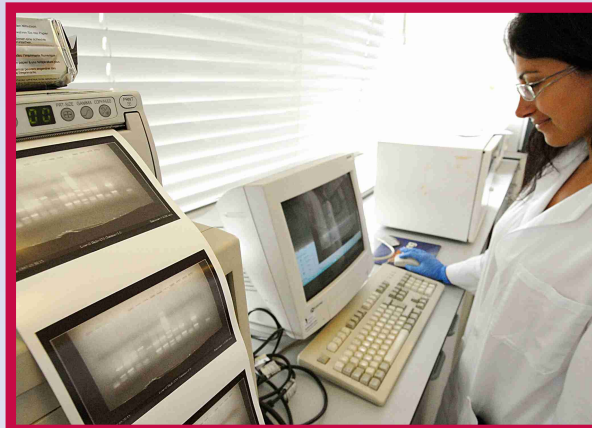
## COURSE DETAILS

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This 2 day, predominantly "hands-on" laboratory course will appeal to individuals wishing to refresh or develop their knowledge and skills within the fields of *Diagnostics / Molecular Biology*, perhaps in support of their continued professional development.

This course will actively provide participants with an understanding of the terms and techniques through "hands-on" laboratory work, supported by lectures integrated into the practical component. The combination of theoretical and practical aspect provides a solid foundation of knowledge and skills in their diagnostic application.

The ratio of attendees to instructors is kept to the minimum to ensure adequate supervision is maintained, providing ample opportunities for one-to-one discussion throughout the course.



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# Molecular Techniques

-a practical approach to  
**PCR and Real Time PCR**  
as **DIAGNOSTIC TOOLS**

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5 - 6 June 2008

CPD accredited (14 credits) by the  
Institute of Biomedical Sciences

## PROGRAMME OF EVENTS

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**Day 1** : Dr Harry Mountain (SENIOR LECTURER IN MOLECULAR BIOLOGY/ GENETICS) will provide an overview of **PCR** and the **Detection of Human DNA polymorphisms as diagnostic tools**.

Participants will isolate human DNA from buccal cells. Samples will be prepared for the amplification of various CYP genes, applying basic and modified PCR methods of analysis such as ARMS, ACRS and RFLP, to demonstrate the detection of human DNA polymorphisms.

A presentation by a guest speaker, specialising in molecular diagnostics (TBC) will conclude the day's events.



**Day 2** : will begin with a brief introduction before applying gel electrophoresis to the amplified products generated in DAY 1.

Midmorning, a hands-on introduction to **Real Time PCR** presented by Jane Hadlington PhD (ABI). Delegates will undertake three different methods of real time application: relative quantification, absolute quantification and SNP genotyping of viral DNA.

The generated data from all three methods will be interpreted and analysed as a group, under specialist instruction. In support of the practical component, a theoretical overview into real time chemistries, probes and the science behind the technique, will be provided.

SUPPORTED BY



## BOOKING FORM

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To register please return this completed form to Ms Sara Buckley at the address overleaf by the 9 May 2008.

FULL NAME.....

ADDRESS.....

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.....POSTCODE .....

TELEPHONE.....

EMAIL.....

IBMS NUMBER.....

COST OF ATTENDANCE: £360

£320 (IBMS)

(Light refreshments and buffets are included in the cost)

CHEQUES: should be made payable to Staffordshire University and returned with this form.

CREDIT/DEBIT CARD: Please telephone our Finance office on 01782 294412. Record the receipt number as proof of purchase.

To receive an INVOICE: Please send a copy of the purchase order with this form.

NO REFUNDS will be made within 14 days of the commencement of the course; however, substitutions can be made at any time. Staffordshire University reserves the right to cancel the course if undersubscribed.