

Translational Research

This intensive week long module will give you knowledge of current translational research in the oncology field and focus on the practical application of this research to the treatment of cancer patients. Drawing on speakers from within the University and specialists from across the country, the module will look at how strategies have developed from the bench to the bedside and vice versa. It will cover new protein kinase and angiogenic targets, the omics revolution in biomarkers and the potential of immunotherapy. Although mainly lecture based the course will cover practical aspects such as study design for early drug development. There will also be opportunities for lab visits to experience the omic revolution first hand.

Learning Outcomes

By the end of the module you should be able to:

- Explain the principles of early drug development, its design, regulation and commercialisation
- State the principles of the human tissue act and explain its impact
- Describe the implications and practicalities of discovering the genetic basis of a disease
- Discuss the principles and practicalities of gene therapy
- List some protein kinase inhibitors currently being developed, explain their rationale for use and current clinical experience.
- Explain why angiogenesis, MMPs and TIMPs are useful therapeutic targets and current clinical experience.
- Explain the principles of genomic, pharmacogenomic, proteomic and metabolomic technologies and their application to the clinic.
- Discuss the principles of and current clinical experience with the use of immunotherapy and vaccines against viruses.

Credits

20 credits

Module Attendance Required

1 block week of teaching

Module Dates

2014/2015

17-21 Nov 2014

Assessment

The module will be assessed by a series of short answer problems.

Academics involved in the delivery of this module

Dr Manoj Raghaven, Honorary Senior Lecture and NHS Consultant

Stand Alone Course

This module can be taken as a stand alone course if required. For further information please contact:

Programme Administrator

Tel: +44 (0)121 414 7672

Email: clinicaloncology@contacts.bham.ac.uk (<mailto:clinicaloncology@contacts.bham.ac.uk>)

Fee if taken as a stand alone course

£1100

This module is available without the assessment/credits if preferred

Entry requirements if taken as a stand alone course

For further information on requirements please contact the Programme Administrator

Student Comment

Can I just express my thanks to the MSc Course organisers. The Translational Research module was a further example of a very well organised week with exceptionally high calibre speakers. Throughout the whole of the MSc I have felt privileged to be able to hear the views of clinicians and others who are working at the leading edge of their specific fields. The course also benefits from its setting within the CRUK unit as you are able to draw upon an impressive range of multi-disciplinary expertise from within the research unit, West Midlands Hospitals and beyond giving an immediacy and relevance to individuals intending to deepen their involvement in clinical research.

(Andrew Gillian, Lead Pharmacist for Oncology & Haematology, Whipps Cross University Hospital)

[Study here and find out why the University of Birmingham was awarded The Times and The Sunday Times University of the Year 2013-14](http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx)
(<http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx>)

Course fact file

Type of Course: Continuing professional development, module

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