A new *Cancer Pathway will be offered for the new academic year (September 2011) to supplement the Genetics, Experimental Medicine and †Neuroscience Pathways.

**Cancer Pathway**

*Molecular Basis of Tumourigenesis and Metastasis* How do failed molecular control pathways – all of which are features of cancer – contribute to cell proliferation, errors in DNA repair, loss of cell cycle control, and the loss of the essential pathways for cell suicide? How are molecularly targeted therapies starting to transform treatment?

*Molecular Techniques in Cancer Research* Which new techniques and methodologies are currently revolutionising the molecular understanding of cancer? From classic tumour biology to the recent use of genomics and the even more recent use of proteomics, how can we identify the molecular lesions that are essential for the survival and progression of different cancers? We will use current examples to illustrate this approach and we will explore how insights from these studies can inform drug development.

*Molecular Approaches to Cancer Diagnosis and Treatment* How have molecular insights into cancer helped research? How can molecular oncology be used to improve screening programmes? How does it currently help in cancer diagnosis, treatment and prognosis? Can it yet be used to select treatments? Examples will illustrate novel molecular insights and you will learn about their clinical context.

* The Cancer Pathway will be offered by us, subject to final approval by the University.

† The module structure of the Neuroscience Pathway is changing for 2011-2012. Please see our website at http://www.sheffield.ac.uk/molmed for more information.