RESEARCH HIGHLIGHTS

In the news

GENES KNOW THEIR LEFT FROM THEIR RIGHT

The first genetic association with human handedness has caught the media's attention, not least because the variant that predisposes to lefthandedness is also associated with schizophrenia.

Scientists at the Wellcome Trust Centre for Human Genetics in Oxford identified a haplotype that lies upstream of the leucine-rich repeat transmembrane neuronal 1 gene (<u>LRRTM1</u>) that predisposes to left-handedness when inherited from the father (<u>Molecular Psychiatry</u>, 31 July 2007).

'In right-handed people the left side of the brain usually controls speech and language, and the right side controls emotions. However, in left-handed people the opposite is often true, and the researchers believe the *LRRTM1* gene is responsible for this flip' (*BBC News*, 31 July 2007). Little is in fact known about the function of *LRRTM1*.

In a separate study population, the 'left-handed' haplotype was associated with schizophrenia, which, itself, "...is often traced to unusual balances of brain function..." (Earth Times, 1 August 2007). Although not always clear on the distinction between gene may also slightly raise the risk of developing psychotic mental illness such as schizophrenia..." (BBC News, 31 July 2007) — most sources wisely quoted the caution of lead author Clyde Franks: "There are many factors which make individuals more likely to develop schizophrenia, and the vast majority of left-handers will never develop a problem."

While asymmetry and schizophrenia received attention, few sources alluded to the imprinted nature of this locus — "People appear to inherit the gene from their fathers..." (*National Geographic*, 1 August 2007) — or to possible differences between populations: the schizophrenia association was not replicated when the authors looked at a Han Chinese population. *Patrick Goymer*

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