

## Getting started with genetics

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<b>Date</b>	02 July 2016	<b>Time</b>	10.00-16.45
<b>Venue</b>	Maddingley Hall Maddingley Cambridge		
<b>Tutor</b>	Gillian Ragsdale	<b>Course code</b>	1516NDX047

**Director of Programmes** Emma Jennings

**For further information on this course, please contact** Clare Kerr, Public Programmes Coordinator  
01223 746237 [clare.kerr@ice.cam.ac.uk](mailto:clare.kerr@ice.cam.ac.uk)

**To book** See: [www.ice.cam.ac.uk](http://www.ice.cam.ac.uk) or telephone 01223 746262

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### Tutor biographies

Gillian Ragsdale developed an interest in anthropology while working in educational publishing for the Middle East and Africa. Combining this with a long-standing interest in evolutionary biology and philosophy, she undertook a Masters and Ph.D. in Biological Anthropology at Cambridge. Her main area of interest is the evolution and biology of the mind and behaviour - especially in the contexts of social behaviour, family dynamics, kinship and the role of epigenetics in mediating gene-environment interaction. Gillian currently teaches psychology with the Open University.

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### Day school content:

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This one-day course will introduce participants to the fascinating world of genetics; from the basics of how genes code for proteins to the role that modern sequencing methods can play in personalised medicine. This course is a good taster session for those interested in taking the Certificate in Genetics.

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**Programme:**

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09:30	Terrace bar open for pre-course tea/ coffee	
10:00 – 11:15	Session 1	DNA, genes and proteins: what they are and what they do
11:15	Coffee	
11:45 – 13:00	Session 2	Heritability: what this really means and some examples showing myth vs reality.
13:00	Lunch	
14:00 – 15:15	Session 3	Gene-environment interaction and the new field of epigenetics.
15:15	Tea	
15:30 – 16:45	Session 4	Genetics in the news: gene therapy, genetic engineering and personalised medicine
16:45	Day school ends	

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**Reading and resources list**

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Listed below are a number of texts that might be of interest for future reference, but do not need to be bought (or consulted) for the course.

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<b>Author</b>	<b>Title</b>	<b>Publisher and date</b>
John Quackenbush	The Human Genome: Book of Essential Knowledge	Imagine, 2010
Matt Ridley	Nature via Nurture: Genes, experience and what makes us human	Harper Perennial, 2004
Matt Ridley	Genome: The Autobiography of a Species in 23 Chapters	Fourth Estate, 2000

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## **Additional information**

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### **Venue**

Details of how to find Madingley Hall can be found on our website:  
<http://www.ice.cam.ac.uk/who-we-are/how-to-find-the-institute>

### **Refreshments**

Tea and coffee and lunch will be provided. If you have any specific dietary requirements or allergies and have not already advised us, please inform our Admissions Team on [ice.admissions@ice.cam.ac.uk](mailto:ice.admissions@ice.cam.ac.uk) or +44 (0)1223 746262.

**Note** Students of the Institute of Continuing Education are entitled to 20% discount on books published by Cambridge University Press (CUP) which are purchased at the Press bookshop, 1 Trinity Street, Cambridge (Mon-Sat 9am – 5:30pm, Sun 11am – 5pm). A letter or email confirming acceptance on to a current Institute course should be taken as evidence of enrolment.

*Information correct as of:* 19 May 2016