



### About the Tutor

Guy Sutton's primary research interests are the genetics of neural development and the interactive nature of biological, behavioural and genetic factors in disease processes.

He is Honorary (Consultant) Assistant Professor in the Division of Psychiatry at University of Nottingham and has held previous academic appointments at Manchester, Manchester Metropolitan and Cambridge Universities. Guy has lectured in neuroscience and genetics to a range of undergraduate and postgraduate students, including medics, biologists and psychologists. He has conducted research projects and data analysis for various organisations, including the Department of Health and the Medical Research Council. In addition to presenting research at various international conferences and writing for academic publications, Guy has talked about the theoretical and clinical aspects of his research on television and radio. He sat on the advisory board for the Wellcome Trust's 2013 'Inside The Brain' publication. Recent articles include 'Methods For Exploring The Brain' and 'The Epigenetic Brain' in *Psychology Review*, and 'Crime and The Brain' in *Catalyst*.

He has tutored on 'A' level reading parties for students and teachers for several years. He is an associate tutor with Villiers Park Educational Trust, Cambridge and has written and delivered courses for Young, Gifted & Talented.

### About MBI

MBI (Medical Biology Interactive) delivers one-day and half-day courses, seminars and tutorials in epidemiology, occupational health and the human sciences to the health service, industry and education. All MBI seminars are written and run by academics and health specialists, each of whom has considerable experience in research and its practical applications. Seminars are delivered at the hospital, workplace or school, based on cutting-edge research and current practice benchmarks, and tailored to the needs and concerns of the client.

Some of the courses and tutorials that MBI currently offers are listed in this pamphlet.

For further information and full programmes, please contact Dr. Guy Sutton; tel. 07941 039670.  
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**MBI**  
MEDICAL  
BIOLOGY  
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PRESENTS

# THE HISTORY OF MEDICINE



## *A Half-Day Tutorial On The Development of Medical Knowledge & Techniques - Delivered At Your School*

TUTOR:

**Dr Guy Sutton**

Director, MBI &  
Honorary (Consultant) Assistant Professor,  
University of Nottingham Medical School

### Seminars & Tutorials For The Health Service, Industry & Education



**MBI**  
MEDICAL  
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## WHY A HISTORY OF MEDICINE TUTORIAL?

This new tutorial provides a fascinating introduction to the history of scientific and medical progress over the past 7,000 years or so. The study of medical history is deemed important for many reasons. In its simplest sense it clearly illustrates the origins of our current knowledge – how we got to where we are now. However, it also allows us to see the bigger picture, understanding how illness can impact on society and reinforcing the importance of evidence-based treatment today. Aristotle once wrote that the more information we have about a particular topic, the more likely we are to reformulate and revise our hypotheses. Pasteur's demonstrations of the importance of the tubular microscope in the study of yeast helped the shift away from the Hippocratic-Galenic humoral theory that had prevailed for two millennia. Even today, paradigms are in a continual state of evolution. An understanding of the history of medicine and scientific enquiry enables the student to evaluate and appreciate the rapid changes occurring within fields such as molecular medicine.

This tutorial has been written for the scientist and non-scientist alike. It is intended to enrich existing knowledge about specific cultures and world history, whilst illustrating the course of scientific learning over millennia.

## WHICH STUDENTS WILL BENEFIT?

This tutorial is designed primarily for able A-level students studying subjects such as biology, history and philosophy. It will also be useful to:

- any A-level student with an interest in the history of scientific discovery and medical breakthroughs
- any students considering a university degree and/or career in the following subjects:

Medicine  
Nursing  
Biomedical Science

History  
Philosophy  
Psychology

## AIMS OF THE TUTORIAL

There are two main aims to this tutorial:

- to provide the student with a contextual overview of how science and medicine have co-evolved from ancient societies and cultures through to 21<sup>st</sup> century molecular medicine.
- to explore, through the use of two focus windows, how war has impacted on medical discovery and how psychiatry has developed.

## SPECIMEN PROGRAMME

A variety of topics and issues relating to neuroscience will be covered. Topics can be tailored to the requirements of the syllabus studied and the teacher:

- **9.00-9.10: Introduction & Aims**
- **9.10-9.40: Egypt, India, Greece: Early Medicine**  
*Herodotus, Imhofep, Peseshet and Egyptian medicine. The Edwin Smith Papyrus, the Kahun Gynaecological Papyrus and brain development. Babylonian medicine and the Diagnostic Handbook. Indian medicine, the Atharvaveda and the Sūtrasamhitā. The Greek legacy: Galen, Hippocrates and humoral theory.*

### 9.45-10.20: What Has Islam Ever Given Us?

#### Arabic Medicine & Surgery

Why Arabic learning and science progressed and impressed for up to 1000 years. Al-Haytham's 10th century experiments with light and vision. Ibn Sina and the Canons of Medicine. Rhazes, *Libar Continens* and clinical neurology.

### 10.40-11.15: Renaissance & The Birth of Modern Medicine

Padua, Bologna, Vesalius and De Humani Corporis Fabrica. The Age of Enlightenment and the rise of science. Germ theory, bacteriology and the advent of hospitals.

### 11.15-11.45: MedWeb

Computer-based session exploring genetics and health.

### 11.50-12.15: Focus - Medicine & War

Prosthetics and radical reconstructive surgery.

### 12.20-12.50: Focus - The Coming of Psychiatry

A history of mental illness. Bedlam and the insane asylum. Freud and psychoanalysis. Lobotomies and the drug revolution. Psychiatry today.

### 12.50-1.00: Questions & Conclusions

## FORMAT

The tutorial is delivered in your school and runs throughout the school day. Tutorial date can be arranged by contacting MBI. Format is varied, with interactive, multimedia lectures and group discussions.

Students each receive a comprehensive pdf tutorial pack relating to and complementing material presented during the tutorial. Each school receives interactive History of Medicine software with activities and web links.

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## Praise for Brain Day

"It was amazing that the day passed so quickly and it was lovely to see our students so enthusiastic, asking stimulating questions and receiving such interesting answers.

Like many teachers, I have sometimes come away from conferences feeling rather disappointed in the speakers, however Brain Day was truly excellent."

Margaret Highet,  
Tadcaster Grammar School

"Spot on! The day took the students' knowledge to another level... it has also greatly improved my knowledge and understanding of the brain."

Mr. A. Harper,  
Olderstraw School, Wirral.

"Students have been telling their other teachers how fantastic they thought the day was. The feedback was outstanding and many students have said that this was the most worthwhile and informative training session they have ever had."

Dr. D. Cullen,  
Longsands Academy, Cambridge.

"Fantastic - brings it alive. Great tutorial pack, fantastic resources."

Mr. Peters,  
Horforth School, Leeds.

"A very high standard of presentation. Even the most reluctant students were engaged and fascinated."

Mrs. V. Sweeting,

Enfield County High School, London.

"The students are still buzzing (to use their terminology) and the AS students are already asking if we will do it again next year – to which the answer is a resounding 'yes!'"

Mrs. K. Higgins,  
Wyke College, Hull.

"Superb, stimulating and challenging for even the most able students. I found many of the topics inspiring and really cutting edge. I would not hesitate to recommend this to other schools."

Ms. C. Nicholls,

The Lady Eleanor Holles School, Hampton.

"An excellent tutorial, delivered with real enthusiasm and verve. The students went away inspired and are still talking about it!"

Mr. P. Lucas,

Queen Elizabeth School, Kirkby Lonsdale.

"A thoroughly stimulating day for both students and staff, exceeding all our expectations."

Ms. K. Smith,

St Albans Girls' School, Hertfordshire.

" Students enjoyed the tutorial enormously and loved the sheep brain dissection. The day had been presented as an "Enrichment" opportunity and it certainly was."

Mrs. J. Hardy,

Ashville College, Harrogate.