

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; in particular, how the brain can affect immunity increasing susceptibility to illness.

Dr Sutton is Honorary Special Lecturer at the University of Nottingham Medical School, where he teaches medical and neuroscience students. He has held academic appointments at Manchester, Manchester Metropolitan and Cambridge Universities, lecturing and researching in neuroscience and genetics to a wide range of undergraduate and postgraduate students. Dr Sutton has been a visiting researcher to universities in the United States and 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, he has talked about the oretical and clinical aspects of his research on television and radio.

Dr Sutton 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 runs courses for the National Academy For Gifted & Talented Youth.

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.

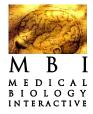
For further information and full programmes, please contact Dr. Guy Sutton; tel. 07941 039670, e-mail: gmsutton@mbi-consultancy.co.uk.

Brain Day Review, ATP Newsletter

"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 this Brain Day was really excellent."

Margaret Highet
Tadcaster Grammar School



Seminars & Tutorials For The Health Service, Industry & Education

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PRESENTS

BRAIN a.m.



A Morning Tutorial For AS/A2 Level Students On The Brain & How It Works -Delivered At Your School

TUTOR:

Dr Guy Sutton

Director, MBI & Honorary Special Lecturer in Neuroscience, University of Nottingham Medical School

WHY A BRAIN MORNING?

Over the past twenty years there have been astounding advances in our understanding of the workings of the human brain and nervous system. *Neuroscience* is the term used to describe the multidisciplinary study of brain function. It is currently one of the most exciting and rapidly developing areas of academic and clinical endeayour.

Neuroscience is an important area of study within psychology and biology. Its prevailing themes and problems – the nature of mind and consciousness, mental illness and the brain, genes and behaviour – permeate many disciplines and are addressed across a wide range of degree courses.

This tutorial is based around the format of the widely praised and successful MBI Brain Day and is designed to present students with a stimulating and fascinating introduction to the brain, employing a variety of stimulating formats.

WHICH STUDENTS WILL BENEFIT?

This tutorial is designed primarily for able post-16 psychology and biology students, but will also be useful to:

- any AS/A2 students with an interest in how the brain works
- any students considering a university degree and/or career in the following subjects:

Medicine Psychology
Biology Biochemistry
Dentistry Neuroscience
Pharmacy Philosophy

The material presented during this tutorial will complement and develop upon topics and issues encountered in the 'A' level Psychology and Biology syllabi.

AIMS OF THE TUTORIAL

There are three main aims to this tutorial:

- to provide the student with an overview of how the mammalian brain works, illustrating some elementary principles of neuroanatomy and brain function.
- to examine what happens when the brain becomes damaged, disorganised and degenerates, with accompanying clinical examples.
- To explore contemporary issues in academic neuroscience, for example, consciousness, behavioural genetics and brain imaging.

MORNING PROGRAMME

A variety of topics and issues relating to neuroscience will be covered. Some of these topics are described in the specimen timetable below:

- 9.00-9.10: Introduction & Aims
- 9.10-10.15: From Neuron to Brain

Neurons, nerve impulses and synapses; genes and brain development; how drugs work on the brain: cocaine and Prozac; brain lobes and subcortical structures; lateralization and localization of cognitive function; genes, brain imaging techniques and other methods for exploring brain function.

• 10.15-10.50: Sheep Brain Dissection*

Comparative neuroanatomy: differences between human and animal brains; the sheep brain and its major structures.

- 10.50-11.05: Break
- 11.05-11.45: Consciousness & Brain Damage

What is consciousness and how can it be altered? Frontal lobe damage and personality; Visual agnosia and The Man Who Mistook His Wife For A Hat; Alzheimer's disease and neurodegenerative disorders; Stress and the brain.

• 11.45-12.30: Focus on Schizophrenia

An introduction to mental illness and its diagnosis; The symptomatology of schizophrenia with video case study; 21st century explanations of the disease and prospects for future treatments.

- 12.30-12.40: Conclusion & Questions
- * Dissection is performed solely by the tutor.

FORMAT

The tutorial is delivered in your school and runs throughout the school morning. The above times are changeable to suit the school. Tutorial date can be arranged by contacting MBI.

Format is varied, with interactive, multimedia lectures and group discussions.

Each school receives an interactive sampler CD-ROM featuring tutorial material, activities and web links. Students each receive a comprehensive tutorial pack relating to and complementing material presented during the tutorial.

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PRAISE FOR BRAIN DAY

"A brilliant day". Mrs. L. Brown, The Friary School, Lichfield.

"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,

Oldershaw School, Wirral.

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

Mr. Peters, Horsforth 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.

"Pupils highly enjoyed the optical illusions and interactive quizzes. A brilliant day."
Ms. P. Glaze,
Oldbury Wells School, Bridgnorth.

"Such an entertaining and stimulating day. The students have been very enthusiastic about the presentation."

Mrs. H. White, Prince Henry's Grammar School, Otley.

"Students really enjoyed the DVD clips and appreciated the opportunity for discussion." Ms. J. Herd, The Wallasey School, Wirral.

"A very interesting day. Feedback from students has all been very positive."

Mr. D. Howes, Hills Road Sixth Form College, Cambridge.

"Terrific."

Mr. S. Codd,

Swinton Comprehensive School, Mexborough.

"Great variety of content... 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. I Hardy

St Aidan's & St John Fisher Associated Sixth Form, Harrogate.