

M B I
MEDICAL
BIOLOGY
INTERACTIVE

Brains *for* Psychologists

A Half-Day Introductory Tutorial In Neuroscience

Lymm High School

Thursday 5th January 2023

Tutor:

Dr Guy Sutton

Director, Medical Biology Interactive

PROGRAMME

9:00-9:05 Introduction and Aims

9:05-10:10 **The Working Brain**

Basic brain anatomy. Nerve cells and synapses. Brain-computer interfaces. Methods of studying the brain: from open brain surgery to neuroimaging. Making human brain tissue in the lab. Neuroplasticity: from sleep to neglect.

Morning Break

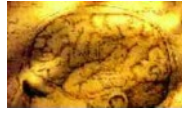
10:25-11:25 **The Dissected Brain**

Brain anatomy. How much brain can we lose? The case of hemispherectomy. Sheep brain dissection.

11:30-12:10 **Mental Illness, Crime and the Brain**

What is mental illness and how is it classified? Schizophrenia, drugs and the brain. Mentally ill offenders and the law. Brain damage and aggression: from brain tumours to traumatic brain injury.

12:10-12:15 Conclusions and Questions



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12:30-12:35 Introduction and Aims

12:35-13:45 **The Working Brain**

Basic brain anatomy. Nerve cells and synapses. Brain-computer interfaces. Methods of studying the brain: from open brain surgery to neuroimaging. Making human brain tissue in the lab. Neuroplasticity: from sleep to neglect.

Afternoon Break

14:00-15:00 **The Dissected Brain**

Brain anatomy. How much brain can we lose? The case of hemispherectomy. Sheep brain dissection.

15:00-15:40 **Mental Illness, Crime and the Brain**

What is mental illness and how is it classified? Schizophrenia, drugs and the brain. Mentally ill offenders and the law. Brain damage and aggression: from brain tumours to traumatic brain injury.

15:40-15:45 Conclusions and Questions