

## Central Nervous System Mechanisms, Disorders and Therapeutics

|                |                                         |
|----------------|-----------------------------------------|
| Module Code:   | CLS6004-B                               |
| Academic Year: | 2018-19                                 |
| Credit Rating: | 20                                      |
| School:        | School of Pharmacy and Medical Sciences |
| Subject Area:  | Clinical Sciences                       |
| FHEQ Level:    | FHEQ Level 6                            |
| Module Leader: | Dr Amos Fatokun                         |

Additional Tutors:

Pre-requisites:

Co-requisites:

### Contact Hours

| Type                    | Hours |
|-------------------------|-------|
| Lectures                | 24    |
| Tutorials               | 4     |
| Directed Study          | 167   |
| Other (DO NOT USE)      | 3     |
| Examinations DO NOT USE | 2     |

### Availability Periods

| Occurrence | Location/Period                                 |
|------------|-------------------------------------------------|
| BDA        | University of Bradford / Semester 1 (Sep - Jan) |

### Module Aims

To further develop a knowledge and understanding of the central nervous system, its organisation and an in depth appraisal of important disorders, our current understanding of

the underlying mechanisms and treatments. To develop a critical appreciation of contemporary techniques and approaches to the experimental study of these topics

## Outline Syllabus

Research design and evaluation; Functionality of the brain and central nervous system; synaptic plasticity, learning and memory. Mechanisms of cell death and links to nerve injury and repair, Parkinson`s disease and motor disorders, Motor Neurone Disease, Prion disease, Alzheimers disease and dementia, treatment and care of dementia, Addiction, Schizophrenia, Anxiety and depression. Clinical context; current and future pharmacological treatments.

## Module Learning Outcomes

*On successful completion of this module, students will be able to...*

- 1 Review important disorders of the Central Nervous System and evaluate current views on their underlying mechanism and treatment.
- 2 Critically analyse research papers relating to Central nervous system disorders
- 3 Use coherent communication, analysis and problem-solving skills to apply your knowledge to new concepts.
- 4 Work successfully in a team to interpret data, produce a poster and present an oral report.

## Learning, Teaching and Assessment Strategy

Information outlining the knowledge and understanding required of this module will be delivered in lectures. Self-directed learning to support each topic will be carried out in your directed study time. This will develop your cognitive skills and reinforce the taught component will be highlighted in lectures and reviewed in tutorials. A formative assessment will be used to monitor your progress. Your knowledge base and critical analysis of the material will be assessed by a closed book examination.

You will work in groups in directed study time to research information, consider case studies and produce a research poster which will be summatively assessed; this will comprise a group mark for the poster weighted according to your self/peer assessment and an individual mark based on a question/answer session on the poster. The group exercise will require you to work under pressure, meet deadlines and develop communication and presentation skills.

## Mode of Assessment

| Type      | Method       | Description                   | Length  | Weighting | Final Assess' |
|-----------|--------------|-------------------------------|---------|-----------|---------------|
| Summative | Presentation | Group poster presentation and | 0 hours | 30%       | No            |

|           |                              |                                                                  |         |     |     |
|-----------|------------------------------|------------------------------------------------------------------|---------|-----|-----|
|           |                              | question/answer<br>session End<br>Semester 1                     |         |     |     |
| Summative | Examination<br>- closed book | One written<br>closed-book 2 hr<br>examination End<br>Semester 1 | 2 hours | 70% | Yes |

### Legacy Code (if applicable)

CS-6004D

### Reading List

To view Reading List, please go to [rebus:list](#).