

MODULE APPROVAL FORM
SECTION 1 – THE MODULE SPECIFICATION

1. Module title	B4 Neurodegeneration research								
2. Is this module also available for Study Abroad students	Yes No								
3. Module code For King's students For Study Abroad students if different	7PAMNNB4								
4. Subject area									
5. Credit level (tick one box only)	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7✓</td> </tr> </table>	4	5	6	7✓				
4	5	6	7✓						
6. Credit value (tick one box only)	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>15</td> <td>30✓</td> <td>45</td> <td>60</td> </tr> <tr> <td>20</td> <td>40</td> <td>90</td> <td></td> </tr> </table>	15	30✓	45	60	20	40	90	
15	30✓	45	60						
20	40	90							
7. Teaching institution (if not King's College)									
8. Proposing department	Department of Neuroscience, Institute of Psychiatry								
9. Module organiser and contact details	Dr Diane Hanger 020 7848 0041 diane.hanger@iop.kcl.ac.uk								

10. Educational aims of the module

The module is one of several taught modules on the MSc Neuroscience and aims to further develop the students' understanding of neurodegeneration gained from the compulsory modules in fundamental neuroscience, especially module A3. By focusing on current research in this area, the module will also enhance the student's understanding of research methods and so improve their ability to undertake a successful MSc research project. It will place a strong emphasis on enabling students to critically appraise the relevant scientific literature, to evaluate design of experiments and analysis of data. The module will be compulsory for those students wishing to specialise in this subject area. The module will introduce students to the wide range of model systems that are used in neurodegeneration research and the associated experimental protocols.

Students choosing this specialised module will develop a greater understanding of the range of disorders that comprise this study area (detailed in section 11 below) including its clinical, neuropathological, genetic, biochemical and cell biological aspects.

The aim is to develop the student's ability to understand and to interpret scientific literature specific to research in neurodegeneration. Students completing this module in combination with Module C4 Research Project in Neurodegeneration will be equipped to make an informed career choice, either in further postgraduate education (eg PhD) or employment related to neurodegeneration. Alternatively, students may wish to choose a research project in a different subject area leading to an understanding of research activities in two neuroscience fields.

11. Learning outcomes of the module (these need to take account of the generic level descriptors)

On completing Module B4, students will have acquired sufficient background to allow them to understand the clinical, neuropathological, genetic, biochemical and cell biological aspects of neurodegeneration. They will have gained a broad understanding of neurodegeneration which will enable them to make an informed choice of post-graduate research training or employment as the next step in their career.

The students will study a range of disorders that are included within the spectrum of neurodegenerative diseases that includes dementias (Alzheimer's disease, vascular dementia, fronto-temporal and related dementias, Lewy body disease), Parkinson's disease, motor neuron diseases, and prion diseases. In addition to disease characterisation and risk factors, this module will also focus on neurobiological disease mechanisms relevant to neurodegeneration including receptor signalling, protein aggregation and turnover, chaperones, cell death and the cytoskeleton, as well as current therapeutic strategies.

The expectation is that students completing this module will be enabled to critically appraise scientific literature relevant to neurodegeneration and to apply this understanding to their own research.

12. Programme details (please list all the programmes to which the module contributes and state whether it is introductory (I), professional (P), core (Cr), compulsory (Cp), part of a core/compulsory pair (CrCp) or optional (O) for each programme. Where the module will form part of a core/compulsory pairing please state the partner module below.

Programme title	Programme code	I	P	Cr	Cp	CrCp	O
MSc Neuroscience	TMSC1PTNSC TMSC2PTNSC						O
MSc Neuroscience in Neurodegeneration	Pathway/route code: TNSG						Cp

CRCP's partner Module code	Module title	Programme title	Programme code

13. Prohibited combinations (please list all the modules which cannot be taken in combination with the proposed module and to which programme this relates)

Module title	Module code	Programme
B Neuroscience research	7PAMNNB1	
B1 Psychiatric Genetics research	7PAMNNB1A	
B2 Addiction Biology research	7PAMNNB2	
B3 Developmental Neurobiology research	7PAMNNB3	

B5 Neuroimaging research	7PAMNNB5	
B6 Functional Neuroimaging and Tractography research	7PAMNNB6	
B7 Cognitive Neuroscience research	7PAMNNB7	

14. Pre-requisites (please list all the modules for which the proposed module is a pre-requisite)

Module title	Module code
MSc Neuroscience in Neurodegeneration pathway only: C4 Research project in Neurodegeneration	7PAMNNC4
(and all the modules which are pre-requisite for the proposed module)	
Module title	Module code
A1 Fundamental Neuroscience A2 Fundamental Neuroscience A3 Fundamental Neuroscience	7PAMNNA1 7PAMNNA2 7PAMNNA3

15. Contact time/directed study (please indicate the **exact number of hours for each activity** to give an overall picture of the workload a student taking the module would be expected to undertake. The student should be made clear of what they can expect regarding contact time with staff, and the expectation that the programme has of its students as independent learners). Apart from placements and self-guided learning it is expected that the others are all taught sessions.

Lectures	Seminar/ tutorials	Field/lab/studio /supervised learning	Project work	Placements	Self-guided learning
25	10	10			250

If any of the above is related to e-learning please give details below:

For their private study, students will listen/watch recordings of their lectures, and will access lecture handouts/recommended reading, etc, in an e-learning environment.

16. Assessment pattern - For King's students

Method	Number/ amount	Duration / length	Pass Mark (40 for level 4, 5 and 6; 50 for level 7)	Mandatory mark/ Qualifying mark	% of final grade of module	SI set up if different
Unseen written examinations	1	2.5 h	50%	No	50%	
Assessed coursework (please specify ie essay, project, seminar work, lab work)						
Practical examinations						
Clinical examinations						

16. Assessment pattern - For King's students						
Oral examinations						
Dissertation						
Other (please specify)	examination of a 250-300 word abstract written to accompany a published paper given to students without the abstract	2 h	50%	No	50%	
Other (where attendance/ completion is a requirement in order to pass but does not contribute a mark to the final grade)						
For KIS purposes, please note where the assessment falls under the following 3 categories (see guidance notes for explanation of categories):	Written		Coursework		Practical	
Reassessment opportunity: please state the reassessment pattern, see regulation A3, 20.4 – 20.6						

17. Assessment pattern - For Study Abroad students, if applicable						
Method	Number/ amount	Duration / length	Pass Mark (40 for level 4, 5 and 6; 50 for level 7)	Qualifying mark	% of final grade of module	SI set up if different
Unseen written examinations						
Assessed coursework (please specify ie essay, project, seminar work, lab work)						
Practical examinations						

17. Assessment pattern - For Study Abroad students, if applicable						
Method	Number/ amount	Duration / length	Pass Mark (40 for level 4, 5 and 6; 50 for level 7)	Qualifying mark	% of final grade of modul e	SI set up if different
Clinical examinations						
Oral examinations						
Dissertation						
Other (please specify)						
Other (where attendance/ completion is a requirement in order to pass but does not contribute a mark to the final grade)						
For KIS purposes, please note where the assessment falls under the following 3 categories (see guidance notes for explanation of categories):	Written		Coursework		Practical	
Reassessment opportunity: please state the reassessment pattern, see regulation A3, 20.4 – 20.6						

18. Examples of key recommended text books

Students will have access to recordings of the previous years lectures prior to the module starting to guide their reading

19. Useful websites

MSc Neuroscience website: <http://neuroscience.iop.kcl.ac.uk/msc>

MSc e-learning site: <http://moodle.iop.kcl.ac.uk> (login required)

MRC Centre for Neurodegeneration Research website: <http://cnr.iop.kcl.ac.uk/>

**MODULE APPROVAL FORM
SECTION 2 – SUPPLEMENTARY INFORMATION**

This section will not be relevant for all modules

1. Module name

B4 Neurodegeneration research

2. In cases where parts of all of the module are delivered either away from one of the College campuses and/or by a body or bodies external to the College please provide the following details

Name and address of the off-campus location and/or external body N/A

Percentage of the module delivered off-campus or by external body N/A

Nature of the involvement of external body N/A

Description of the learning resources available at the off-campus location N/A

What mechanisms will be put in place to ensure the ongoing monitoring of the delivery of the module? N/A

Where students are undertaking placements/year abroad/year in employment please provide the guidance information presented to students undertaking this method of study

MODULE APPROVAL FORM
SECTION 3 – ADMINISTRATIVE INFORMATION

1. Module name

B4 Neurodegeneration research

2. Start date**Year**

Started in 2010

Month

February

3. Numbers (if applicable)

Maximum

20

Minimum

5

4. Availability (please indicate when the module is available and when the examination will take place – indicate if this is different for Study Abroad students)

Period of study (dd/mm/yy – dd/mm/yy)

	From (dd/mm/yy)	To (dd/mm/yy)
Sem 1		
Sem 2		
Term 1		
Term 2	Last week January	3 rd week February
Term 3		
Standard year		
Other		

*NB: If module is being delivered more than once during the academic year, note the **full set** of dates that the module is available*

Examination period (*Period 1 (January)/Period 2 (May)/Period 3 (Other)*)

<i>Period 1 (January)</i>	
<i>Period 2 (May)</i>	
<i>Period 3 (Other – please note the month)</i>	<i>March</i>

NB: if module is being delivered more than once during the academic year, note which examination period relates to relevant period of study.

5. Superseded modules (please list any modules that the proposed module supersedes and indicate whether such modules have ever been taught or examined)

Module title and code	Taught	Examined
This module is unchanged but the approval form is required to list changes to other modules that affect the pathways	✓	✓

6. Contributing departments/divisions/Schools (please give details if the module will not be taught exclusively within the proposing department) Please note that % of contribution must be a fixed percentage not in a range (e.g. cannot be 0 – 20%)

Contributing Department/ Division/School	Nature of involvement	% contribution to teaching
1. Department of Neuroscience, IoP (host)	Each department will contribute to the student learning contacts	70%

Module approval 2012/13

2. Departments of Clinical Neuroscience, IoP	(lectures, seminars. tutorials)	15%
3. Department of Psychological Medicine, IoP		15%

**MODULE APPROVAL FORM
SECTION 4 – THE APPROVAL PROCESS**

1. Module name

B4 Neurodegeneration research

2. Initial approval/consultation at the planning stage

- | | | |
|---|---------------------------------|--------------------------------|
| (a) Will the new module require new ISS stock or facilities/systems? | Yes
<input type="checkbox"/> | No
<input type="checkbox"/> |
| (b) Will the new module require any new resources (e.g. teaching space, staff, offices, additional support from central services?) | Yes
<input type="checkbox"/> | No
<input type="checkbox"/> |
| (c) If the new module contains student activities that involve human subjects, has the appropriate ethical approval been sought and granted | Yes
<input type="checkbox"/> | No
<input type="checkbox"/> |

If Yes to (a) and/or (b) above, please attach details and signed approval from the relevant College officer

If Yes to (c) please attach confirmation of ethical approval, including the ethics approval number

3. Approval by the School Education Committee

Date module approved:

Signature of the Chair of the School Education Committee:..... Date:

(Electronic signatures are acceptable)

4. Approval for modules jointly taught by more than one School

Date module approved by the second School(s):

Signature of the Chair of the second School Education Committee(s):..... Date:.....

(Electronic signatures are acceptable)

**MODULE APPROVAL FORM
SECTION 5 – MODULE SET UP ON SI (IN SCHOOL)**

1. Module name

B4 Neurodegeneration research

2. School approved to set Module up on SI

Yes

No

For Quality and Academic Support Section (QAS) purposes only:

3. Information recorded on form approved by QAS?

Yes

No, sent back to School

If no, why was the form sent back to the School?

4. If the module was picked as part of a sample and checked by Information Development and Analysis, was the information recorded on SI correct?

Yes

No

If no, what information had been incorrectly inputted