

**MODULE APPROVAL FORM**  
**SECTION 1 – THE MODULE SPECIFICATION**

<b>1. Module title</b>	B1 Psychiatric genetics research
<b>2. Is this module also available for Study Abroad students</b>	<del>Yes</del> <span style="margin-left: 150px;">No</span>
<b>3. Module code</b> <b>For King's students</b> <b>For Study Abroad students if different</b>	7PAMNNB1A
<b>4. Subject area</b>	The module considers the role of genetic and epigenetic variation in psychiatric disorders and related phenotypes, its interaction with the environment and the mediating neurobiological mechanisms.
<b>5. Credit level (tick one box only)</b>	<input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7√
<b>6. Credit value (tick one box only)</b>	<input type="checkbox"/> 15 <input checked="" type="checkbox"/> 30√ <input type="checkbox"/> 45 <input type="checkbox"/> 60 <input type="checkbox"/> 20 <input type="checkbox"/> 40 <input type="checkbox"/> 90
<b>7. Teaching institution (if not King's College)</b>	
<b>8. Proposing department</b>	Department of Neuroscience
<b>9. Module organiser and contact details</b>	Dr Nick Bray 020-7848-5406 nicholas.bray@kcl.ac.uk

**10. Educational aims of the module**

The module in Psychiatric Genetics will be principally taught by the Department of Neuroscience and the Social, Genetic and Developmental Psychiatry (SGDP) Centre, a department recognised as a world leader in the field of behavioural genetics research. The module is one of several taught modules on the MSc Neuroscience and will further develop the students' understanding of genetic approaches to psychiatric disorders gained from the compulsory modules in fundamental neuroscience (especially modules A2 and A3). The module will cover the latest genetic research applied to a range of disorders including schizophrenia, bipolar disorder, attention deficit hyperactivity disorder (ADHD), autism spectrum disorders (ASD), major depression and related phenotypes such as cognitive ability. It will help students understand the principles of a range of genetic research methods, preparing them for a successful MSc research project in this area. The module will also include dedicated lectures on quantitative genetics, epigenetics, gene-environment interaction and the investigation of genetic risk factors for psychiatric illness at the molecular, cellular and neurophysiological levels. These lectures will be supported by tutorials on genetic variation, statistical methods and the interpretation of scientific papers in the field.

The aim of the module is to develop the students' knowledge and understanding of the various strands of research related to psychiatric genetics and an ability to interpret the literature. Students completing this module will have the option of combining this with a Module C1 Research Project in Psychiatric Genetics to allow them to further specialise in this area. 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)**

After completing this module, successful students will have a good knowledge of genetic research as applied to a number of psychiatric disorders, as well as related topics including gene-environment interaction and epigenetics. Students will be able to understand and interpret the scientific literature within the field. They will have a sound understanding of a range of genetic research strategies from quantitative genetic methods (to assess the overall genetic contribution to a trait) to molecular genetics techniques (to identify the underlying genetic variants and their functional consequences), preparing them for a research project in this area.

Students completing this module will be equipped to make an informed career choice, either in further postgraduate education (e.g., PhD) or employment related to the subject.

**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 Psychiatric Genetics	Pathway/route code: TNBG						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
B2 Addiction Biology research	7PAMNNB2	
B3 Developmental Neurobiology research	7PAMNNB3	
B4 Neurodegeneration research	7PAMNNB4	
B5 Neuroimaging research	7PAMNNB5	
B6 Functional Neuroimaging and Tractography	7PAMNNB6	

research B7 Cognitive neuroscience research	7PAMNNB7	
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**14. Pre-requisites** (please list all the modules for which the proposed module is a pre-requisite)

Module title	Module code
MSc Neuroscience in Psychiatric Genetics pathway only: C1 Research project in Behavioural Genetics	7PAMNNC1A
(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	5	10			260

**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						
Assessed coursework (please specify ie essay, project, seminar work, lab work)						
Practical examinations						
Clinical examinations						

<b>16. Assessment pattern - For King's students</b>						
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	2h	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						

<b>17. Assessment pattern - For Study Abroad students, if applicable</b>						
<b>Method</b>	<b>Number/ amount</b>	<b>Duration / length</b>	<b>Pass Mark (40 for level 4, 5 and 6; 50 for level 7)</b>	<b>Qualifying mark</b>	<b>% of final grade of module</b>	<b>SI set up if different</b>

<b>17. Assessment pattern - For Study Abroad students, if applicable</b>						
<b>Method</b>	<b>Number/ amount</b>	<b>Duration / length</b>	<b>Pass Mark (40 for level 4, 5 and 6; 50 for level 7)</b>	<b>Qualifying mark</b>	<b>% of final grade of modul e</b>	<b>SI set up if different</b>
Unseen written examinations						
Assessed coursework (please specify ie essay, project, seminar work, lab work)						
Practical examinations						
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 year's lectures prior to the module starting to guide their reading.

**19. Useful websites**

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

Module approval 2012/13

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

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

This section will not be relevant for all modules

**1. Module name**

Module B1 Psychiatric Genetics 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**

<b>1. Module name</b>	B1 Psychiatric genetics research
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<b>2. Start date</b>		<b>3. Numbers</b> (if applicable)	
<b>Year</b>	<b>Month</b>	Maximum	20
continuing		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)**

	<b>From (dd/mm/yy)</b>	<b>To (dd/mm/yy)</b>
Sem 1		
Sem 2		
Term 1		
Term 2	Last week January	3 <sup>rd</sup> 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
The module replaces B1 Behavioural genetics. The change reflects a new module leader and a slight shift in emphasis of the module.	Yes	Yes

**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



Module approval 2012/13

Department of Neuroscience, IoP (host)	The department will provide the student learning contacts and some of the lectures, seminars, tutorials.	50%
Department of Social, Genetic and Developmental Psychiatry, IoP	The department will provide some of the lectures, seminars and tutorials	50%

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

**1. Module name**

B1 Psychiatric genetics research

**2. Initial approval/consultation at the planning stage**

- |   |                                 |                                |
|---|---------------------------------|--------------------------------|
| (a) Will the new module require new ISS stock or facilities/systems?  | Yes<br><input type="checkbox"/> | No<br><input type="checkbox"/> |
| (b) Will the new module require any new resources (e.g. teaching space, staff, offices, additional support from central services?)          | Yes<br><input type="checkbox"/> | No<br><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<br><input type="checkbox"/> | No<br><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**

B1 Psychiatric genetics 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**