

Course Information Sheet for entry in 2022-23: DPhil in Ion Channels and Membrane Transport in Health and Disease (OXION)



About the course

The programme exposes you to a range of multidisciplinary approaches and embraces all aspects of ion channel and membrane transport research from protein structure, x-ray crystallography and single particle CryoEM, genetics and cell physiology, to animal behaviour and human disease. The first year involves exposure to different techniques during two extended rotation projects in different labs. This is followed by a three-year multidisciplinary research project involving two different OXION groups.

In the first year, in addition to the two 5-month laboratory rotations, you will also prepare for a multidisciplinary PhD by undertaking the PILB and PILC animal courses (formerly known as modules one to four) of the Home Office Personal Licence. Other University-based training and lecture courses may also be considered relevant depending upon your background.

A unique aspect of the programme is the wide range of experimental techniques available within the OXION laboratories. These include approaches to whole animal *in vivo* physiology and animal behaviour, as well as cutting-edge biochemical, biophysical, electrophysiological, structural and computational methods for studying ion channels and membrane proteins.

From the second to fourth years, you will focus on your doctoral research project. This must be a multidisciplinary project that involves more than one research group. Such joint projects not only help you develop independence and a wider range of skills, but also facilitate important collaborations between groups. The final choice of both project and host research groups will be made by you in conjunction with the Organising Committee.

Where appropriate, you will also have the opportunity to take additional graduate modules to equip yourself with new skills that might be required for your project, or to update your knowledge of major new developments in your own (or related) research field. Training will also be provided in other relevant transferable skills such as writing research papers, planning/writing a thesis and presentation skills.

Supervision

The allocation of graduate supervision for this course is the responsibility of the Medical Sciences Doctoral Training Centre and it is not always possible to accommodate the preferences of incoming graduate students to work with a particular member of staff. Under exceptional circumstances a supervisor may be found outside the Medical Sciences Doctoral Training Centre.

The primary supervisor will be drawn from a list of those working directly on ion channels or transporters but the choice of co-supervisor may depend on the nature of the project and techniques required. Students typically meet with their supervisors weekly.

Applicants are advised to visit the course page on the centre's website for further information about supervisors associated with this course (see *Further Information and Enquires*).

Assessment

All students will be initially admitted to the status of Probationer Research Student (PRS). Within a maximum of six terms as a PRS student you will be expected to apply for transfer of status from Probationer Research Student to DPhil status.

A successful transfer of status from PRS to DPhil status will require the submission of a report on progress to date on research and future plans. Students who are successful at transfer will also be expected to apply for and gain confirmation of DPhil status within ten terms of admission, to show that your work continues to be on track.

Both milestones normally involve an interview with two assessors (other than your supervisor) and therefore provide important experience for the final oral examination.

You will be expected to submit an original thesis of up to 50,000 words within a maximum of four years from the date of admission. To be successfully awarded a DPhil in Ion Channels and Membrane Transport in Health and Disease you will need to defend your thesis orally (*viva voce*) in front of two appointed examiners.

Changes to courses

The University will seek to deliver this course in accordance with the description set out above. However, there may be situations in which it is desirable or necessary for the University to make changes in course provision, either before or after registration. These

may include significant changes made necessary by a pandemic (including Covid-19), epidemic or local health emergency. For further information, please see the University's Terms and Conditions (<http://www.graduate.ox.ac.uk/terms>) and our page on changes to courses (<http://www.graduate.ox.ac.uk/coursechanges>).

Expected length of course

	Full Time Only
Expected length	4 years

Costs

Annual fees for entry in 2022-23

Fee status	Annual Course fees
Home	£8,620
Overseas	£28,560

Further details about fee status eligibility can be found on the fee status webpage (<http://www.graduate.ox.ac.uk/feestatus>).

Course fees are payable each year, for the duration of your fee liability (your fee liability is the length of time for which you are required to pay course fees). For courses lasting longer than one year, please be aware that fees will usually increase annually. Information about how much fees and other costs may increase is set out in the University's Terms and Conditions (<http://www.graduate.ox.ac.uk/terms>).

Course fees cover your teaching as well as other academic services and facilities provided to support your studies. Unless specified in the additional cost information (below), course fees do not cover your accommodation, residential costs or other living costs. They also don't cover any additional costs and charges that are outlined in the additional cost information.

Graduate students who have reached the end of their standard period of fee liability may be required to pay a termly University and/or a college continuation charge.

The University continuation charge, per term for entry in 2022-23 is £548, please be aware that this will increase annually. For part-time students, the termly charge will be half of the termly rate payable by full-time students.

If a college continuation charge applies (not applicable for non-matriculated courses) it is likely to be in the region of £100 to £600 per term. Please contact your college for more details.

Additional cost information

There are no compulsory elements of this course that entail additional costs beyond fees (or, after fee liability ends, continuation charges) and living costs. However, please note that, depending on your choice of research topic and the research required to complete it, you may incur additional expenses, such as travel expenses, research expenses, and field trips. You will need to meet these additional costs, although you may be able to apply for small grants from your department and/or college to help you cover some of these expenses.

Living costs

In addition to your course fees, you will need to ensure that you have adequate funds to support your living costs for the duration of your course.

The likely living costs for 2022-23 are published below. These costs are based on a single, full-time graduate student, with no dependants, living in Oxford. We provide the cost per month so you can multiply up by the number of months you expect to live in Oxford.

Likely living costs

	Likely living costs for 1 month		Likely living costs for 9 months		Likely living costs for 12 months	
	Lower range	Upper range	Lower range	Upper range	Lower range	Upper range
Food	£290	£410	£2,610	£3,690	£3,480	£4,920
Accommodation	£680	£810	£6,120	£7,290	£8,160	£9,720
Personal items	£135	£260	£1,215	£2,340	£1,620	£3,120
Social activities	£45	£120	£405	£1,080	£540	£1,440
Study costs	£45	£100	£405	£900	£540	£1,200
Other	£20	£55	£180	£495	£240	£660
Total	£1,215	£1,755	£10,935	£15,795	£14,580	£21,060

When planning your finances for any future years of study at Oxford beyond 2022-23, you should allow for an estimated increase in living expenses of 3% each year.

More information about how these figures have been calculated is available at www.graduate.ox.ac.uk/livingcosts.

Document accessibility

If you require an accessible version of the document please contact Graduate Admissions and Recruitment by email (graduate.admissions@admin.ox.ac.uk) or via the online form (<http://www.graduate.ox.ac.uk/ask>).