



Annual Undergraduate International School in Biomedical Sciences



Annual Undergraduate International School in Biomedical Sciences 2012 Theme "Ion Channels in Health and Disease"

Our mission:

Internationalization of University education and promotion of biomedical research are the key priorities of participating universities. Thus, in organising this Annual School in Biomedical Sciences the partner universities join their efforts for establishing productive collaborative platform aiming:

- to introduce our students to modern trends and recent major developments in Biomedical research, with important focus on "from theory to practice";
- to facilitate exchange in best international practices of university education;
- to allow our students to experience the excellence and long traditions of university education in the United Kingdom;
- to improve practice of lectures in English and to develop English skills of students at the Educational and Scientific Centre "Institute of Biology" of Taras Shevchenko Kiev National University.

This will undoubtedly contribute to further development of educational, scientific and cultural links between the Ukraine and the United Kingdom.

Where: Educational and Scientific Centre "Institute of Biology" of Taras Shevchenko National University of Kyiv, 2 Academician Glushkov Avenue, Kiev, Ukraine
<http://biol.univ.kiev.ua/eng>

When: 24 -29 September 2012.

Audience: Undergraduate students (Years 4, 5 and 6), PhD students, members of staff - approximately 150 participants. We may also be able to invite a limited number of students from our partner universities (Taurida National V.I.Vernadsky University and Volyn National University of Lesya Ukrainka).

Lecturers:

School of Medicine, Dentistry & Biomedical Science, Queen's University Belfast, United Kingdom

Professor Graham McGeown, Deputy Head of School, Centre for Vision and Vascular Science.
Professor Alexander Zholos, Centre for Vision and Vascular Science; Professor in Biophysics, Educational and Scientific Centre "Institute of Biology".

Professor Madeleine Ennis, Centre for Infection and Immunity.

Dr Timothy Curtis, Senior Lecturer, Centre for Vision and Vascular Science.

Dr Shozeb Haider, Senior Lecturer in Drug Discovery, Centre for Cancer Research and Cell Biology

Dr Miriam Sgobba, Centre for Cancer Research and Cell Biology

Naresuan University, Phitsanulok, Thailand
Dr Norman Scholfield, Faculty of Pharmaceutical Sciences.

School language: English

Course Programme

22-23 September

Arrivals

Monday 24 September

14.00-14.30 Welcome and Introduction from the organisers (administration of central University and Institute of Biology, Visiting Professors).

14.30 - 15.30 Prof G. McGeown "Introduction to ion channels"

15.45 - 16.45 Dr T. Curtis "Molecular characterisation of ion channels"

Tuesday 25 September

14.30 - 15.30 Dr S. Haider "Computational study of ion channels"

15.45 - 16.45 Prof G. McGeown "Ion channels and disease (K and Na channel disorders)"

17.00 – 18.00 Dr S. Haider, Dr M. Sgobba "An overview of how biologists can use modelling tools to look at structures" (Tutorial, computer class)

Wednesday 26 September

14.30 - 15.30 Dr N. Scholfield "Introduction to Ca and TRP channels and related channelopathies"

15.45 - 16.45 Prof M. Ennis "Cystic fibrosis pathology and novel cell systems for its study"

17.00 – 18.00 Students presentations

Thursday 27 September

14.30 - 15.30 Prof M. Ennis "CFTR function and anomaly"

15.45 - 16.45 Dr N. Scholfield "TRP channels give molecular identity to cell sensing and communication"

17.00 – 18.00 Informal meeting with the students

Friday 28 September

14.30 - 15.30 Prof A. Zholos "Thermo-TRP channels: from temperature sensation to new targets for pain treatment"

15.45 - 16.45 Dr T. Curtis "Ion channel drug discovery"

17.00 - 18.30 Reception and informal discussions with students

18.30 - Staff discussion & dinner

Saturday 29 September

Sightseeing and cultural program (e.g. city tour including visit to Kiev-Pechersk Cave Monastery followed by an evening at the National Opera and Ballet).



Sunday 30 September

Departures

