

## Keshi Chung

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### Education

#### **PhD, Wolfson Centre for Age Related Diseases, King's College London**

##### **2014 - present**

Thesis Title: Cathepsin S and Protease activated receptors-2: New players in the sensation of itch

Supervisor: Professor Marzia Malcangio

#### **BSc (First Class Honours), Biomedical Science, King's College London**

##### **2010 – 2013**

###### *Year Three Modules (2012-2013):*

Cellular and Systems Neuroscience	(63%)
Principles of Neurobiological Research	(65%)
Developmental Neurobiology	(71%)
Laboratory-based Project in Neuroscience	(67%)

###### *Year Two Modules (2011-2012):*

Psychology I	(84%)
Neuroscience	(67%)
Essentials of Embryology	(71%)
Gene Cloning and Expression A and B	(70%)
Endocrinology and Reproduction	(74%)
Report on a Physiological Topic	(69%)

###### *Year One Modules (2010-2011):*

From Cells to Systems	(86%)
Genetics and Cell Biology	(85%)
Biochemistry and Molecular Biology	(80%)
Physiological Systems	(73%)
Fundamentals of Pharmacology	(70%)
The Practice of Biomedical Science	(84%)

#### **St. John's Central College, Sawmill Street, Cork, Ireland**

##### **Applied Sciences and Laboratory Techniques (European Qualifications Framework Level 4)**

##### **2009 – 2010**

Biology	Distinction
Laboratory Techniques	Distinction
Physics	Distinction
Work Experience	Distinction
MS Office	Distinction
Mathematics	Distinction
Communications	Distinction
Chemistry	Distinction

## **Research Experience**

*October 2014 – present: PhD in neuroscience at the Wolfson Centre for Age Related Diseases, King's College London, in collaboration with Medivir AB, Stockholm.*

PhD funded by the Medical Research Council and Medivir AB investigating the Cathepsin S/PAR-2 itch pathway. Research techniques acquired include culture of keratinocytes, primary sensory neurons and glial cells, whole-cell patch-clamping, calcium imaging, ELISAs, cryosectioning, immunohistochemistry and in-situ hybridisation, confocal microscopy, isolation of nucleic acid, qPCR, Western blotting, and behavioural studies with mice. Production of recombinant proteins was performed at Medivir using a baculovirus system to infect insect cell lines.

*September 2012 – April 2013: Undergraduate Laboratory Project at the Department of Craniofacial Development, Guys Tower, King's College London.*

Undergraduate lab project investigating novel Par-1 targets in cell polarity in the developing vertebrate nervous system, using *Xenopus laevis* as a model organism. Experience was gained in transcribing RNA, microinjection of *Xenopus* embryos with RNA, immunostaining, and conventional fluorescent and confocal microscopy.

*June – August 2012: Research Internship at the Social, Genetic & Developmental Psychiatry Centre, Denmark Hill, King's College London.*

This was a 6 week internship funded by the National Institute for Health Research. Experience was gained in DNA and RNA extraction, PCR for genotyping mice, and searching mouse genome databases for single nucleotide polymorphisms.

*March 2010: Laboratory Assistant at the Cork Institute of Technology, Cork, Ireland.*

Voluntary position for 2 weeks as part of an Applied Sciences and Laboratory Techniques course. Duties involved keeping the labs clean, preparing reagents, setting out equipment for practical classes, preparing agar plates, and culturing bacteria and BHK cells.

## **Skills and Interests**

- Holder of a full UK driving licence.
- Holder of a certificate in emergency first aid at work (expires in 2020).
- Knowledge of basic Swedish and German, intermediate French.
- Volunteer advocate for young disabled people in the local community with Advocacy for All (Sidcup).

## **References**

Available upon request.